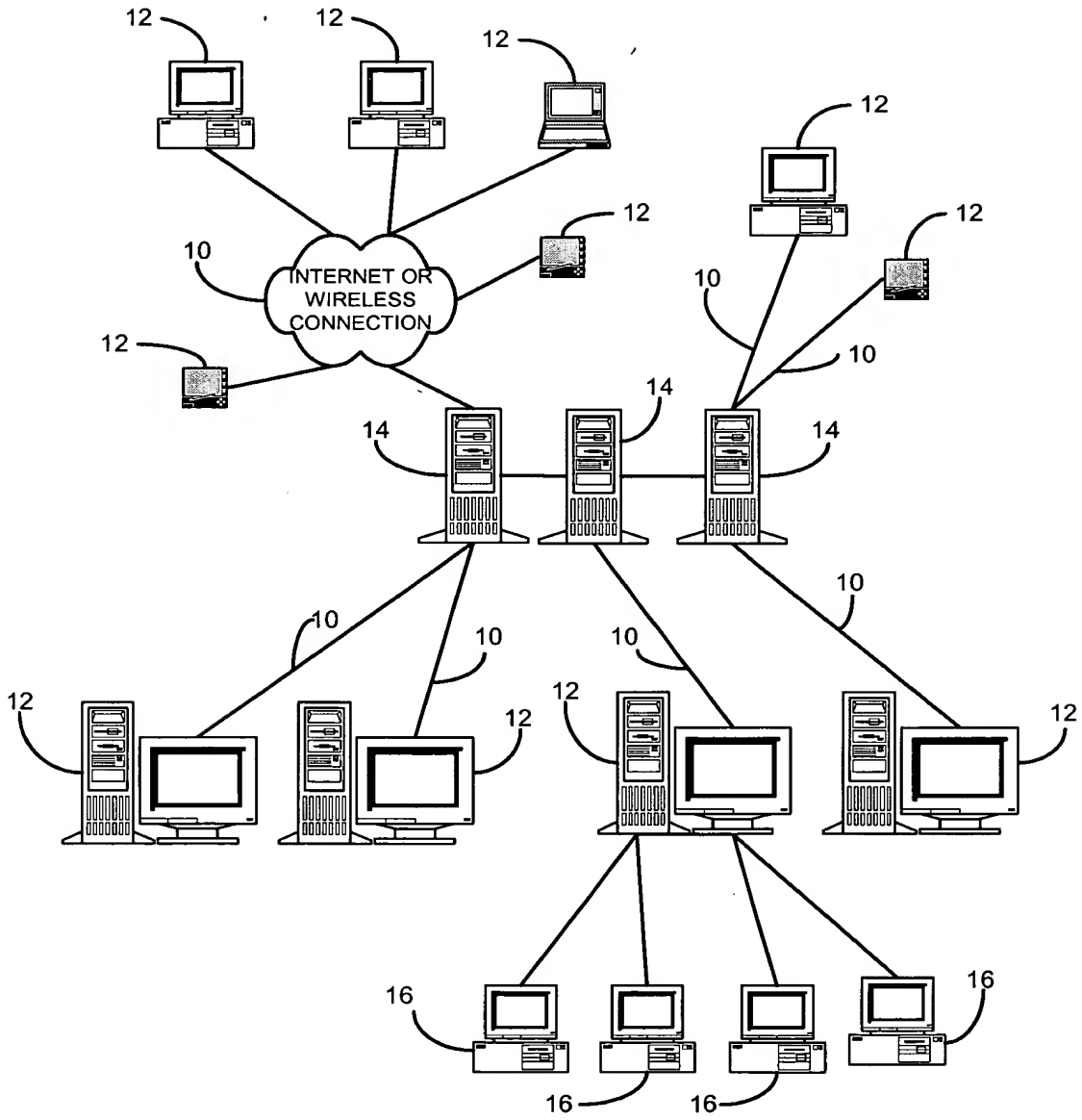

12
12
12
12
12
12
10
INTERNET OR
WIRELESS
CONNECTION
12
10
10
14
14
14
10
10
10
10
12
12
12
12
16
16
16
16

FIG. 1

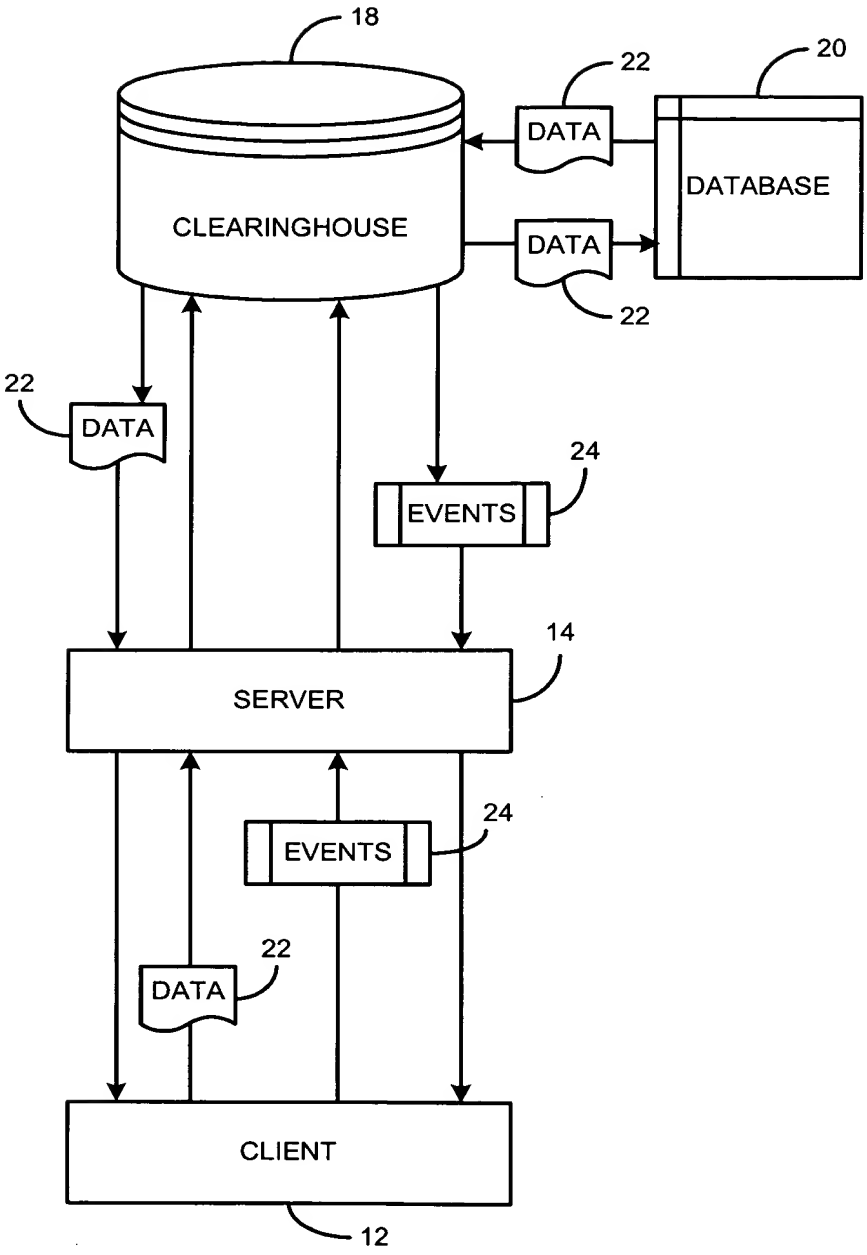

18
22
20
DATA
DATABASE
CLEARINGHOUSE
DATA
22
22
DATA
24
EVENTS
14
SERVER
24
EVENTS
22
DATA
CLIENT
12

FIG. 2

DOCKET 98P26500

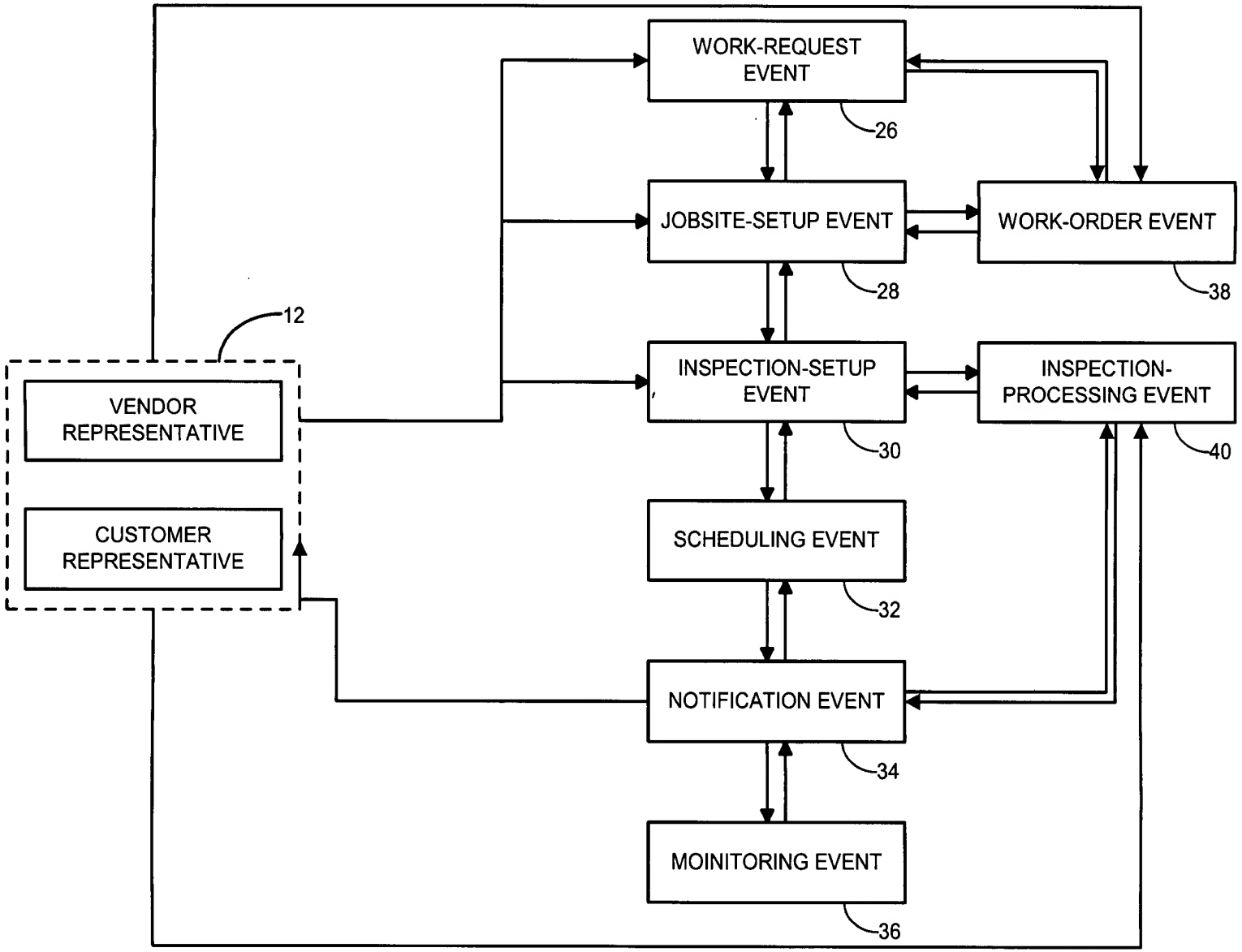


FIG. 3

FIG. 4

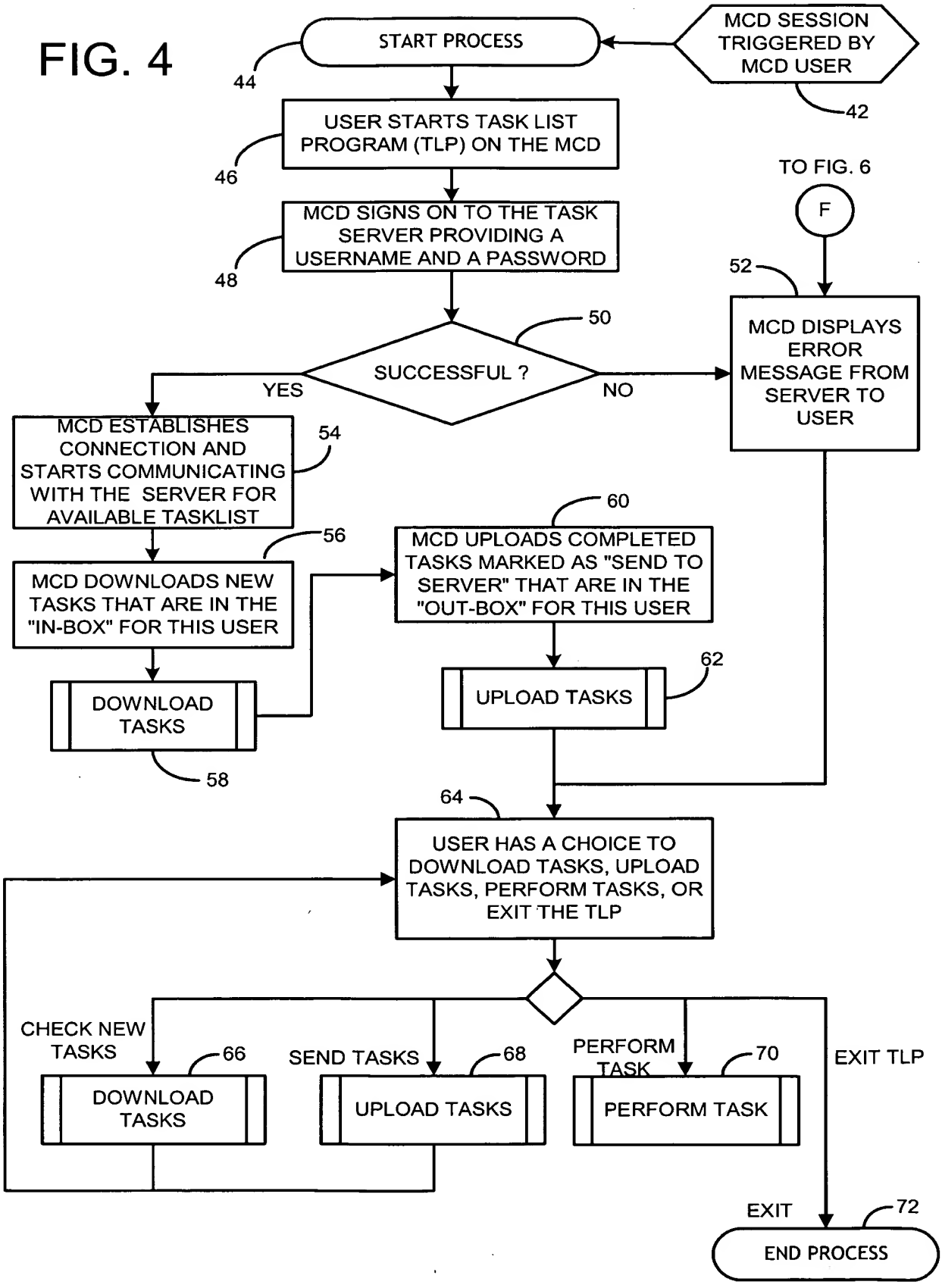

START PROCESS
MCD SESSION TRIGGERED BY MCD USER
44
42
USER STARTS TASK LIST PROGRAM (TLP) ON THE MCD
46
MCD SIGNS ON TO THE TASK SERVER PROVIDING A USERNAME AND A PASSWORD
48
TO FIG. 6
F
52
MCD DISPLAYS ERROR MESSAGE FROM SERVER TO USER
50
SUCCESSFUL ?
YES
NO
MCD ESTABLISHES CONNECTION AND STARTS COMMUNICATING WITH THE SERVER FOR AVAILABLE TASKLIST
54
MCD DOWNLOADS NEW TASKS THAT ARE IN THE "IN-BOX" FOR THIS USER
56
DOWNLOAD TASKS
58
MCD UPLOADS COMPLETED TASKS MARKED AS "SEND TO SERVER" THAT ARE IN THE "OUT-BOX" FOR THIS USER
60
UPLOAD TASKS
62
USER HAS A CHOICE TO DOWNLOAD TASKS, UPLOAD TASKS, PERFORM TASKS, OR EXIT THE TLP
64
CHECK NEW TASKS
66
DOWNLOAD TASKS
SEND TASKS
68
UPLOAD TASKS
PERFORM TASK
70
PERFORM TASK
EXIT TLP
EXIT
72
END PROCESS

FIG. 5

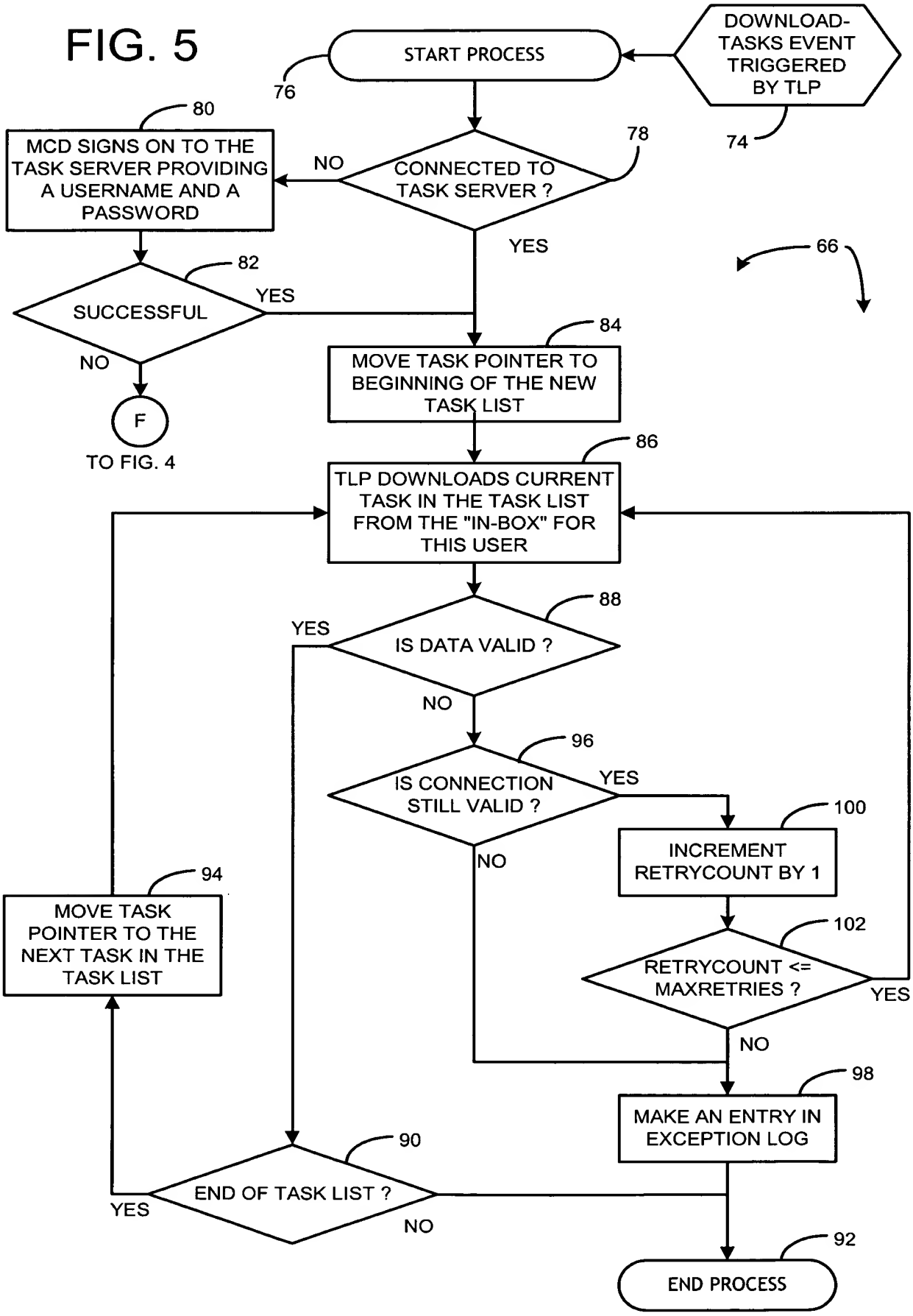
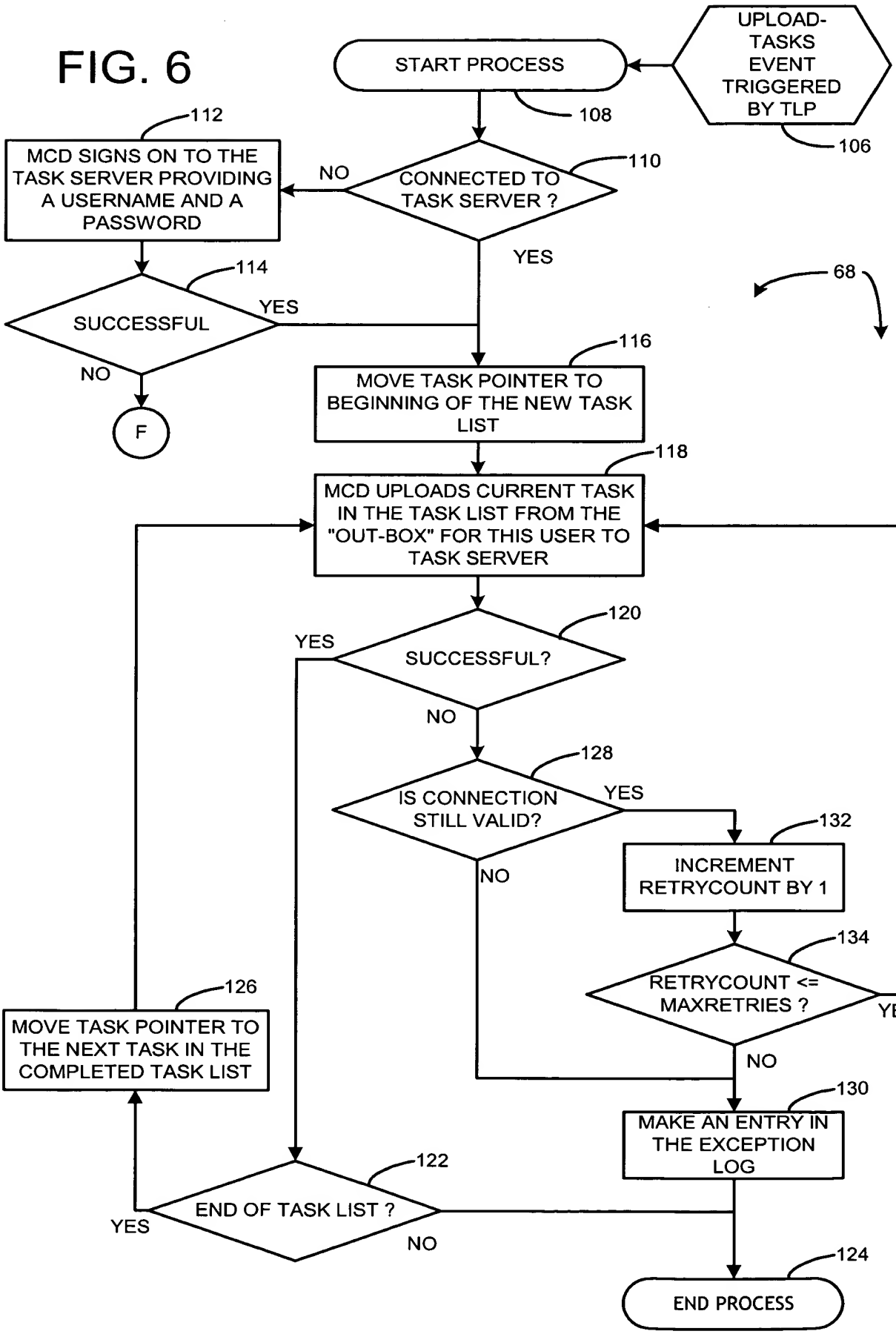

DOWNLOAD-TASKS EVENT TRIGGERED BY TLP
74
START PROCESS
76
CONNECTED TO TASK SERVER ?
78
NO
MCD SIGNS ON TO THE TASK SERVER PROVIDING A USERNAME AND A PASSWORD
80
YES
66
SUCCESSFUL
82
YES
NO
F
TO FIG. 4
MOVE TASK POINTER TO BEGINNING OF THE NEW TASK LIST
84
TLP DOWNLOADS CURRENT TASK IN THE TASK LIST FROM THE "IN-BOX" FOR THIS USER
86
IS DATA VALID ?
88
YES
NO
IS CONNECTION STILL VALID ?
96
YES
NO
INCREMENT RETRYCOUNT BY 1
100
RETRYCOUNT <= MAXRETRIES ?
102
YES
NO
MOVE TASK POINTER TO THE NEXT TASK IN THE TASK LIST
94
MAKE AN ENTRY IN EXCEPTION LOG
98
END OF TASK LIST ?
90
YES
NO
END PROCESS
92

FIG. 6


UPLOAD-TASKS EVENT TRIGGERED BY TLP
106
START PROCESS
108
CONNECTED TO TASK SERVER ?
110
NO
MCD SIGNS ON TO THE TASK SERVER PROVIDING A USERNAME AND A PASSWORD
112
YES
68
SUCCESSFUL
114
YES
NO
F
MOVE TASK POINTER TO BEGINNING OF THE NEW TASK LIST
116
MCD UPLOADS CURRENT TASK IN THE TASK LIST FROM THE "OUT-BOX" FOR THIS USER TO TASK SERVER
118
SUCCESSFUL?
120
YES
NO
IS CONNECTION STILL VALID?
128
YES
NO
INCREMENT RETRYCOUNT BY 1
132
RETRYCOUNT <= MAXRETRIES ?
134
YES
NO
MOVE TASK POINTER TO THE NEXT TASK IN THE COMPLETED TASK LIST
126
MAKE AN ENTRY IN THE EXCEPTION LOG
130
END OF TASK LIST ?
122
YES
NO
END PROCESS
124

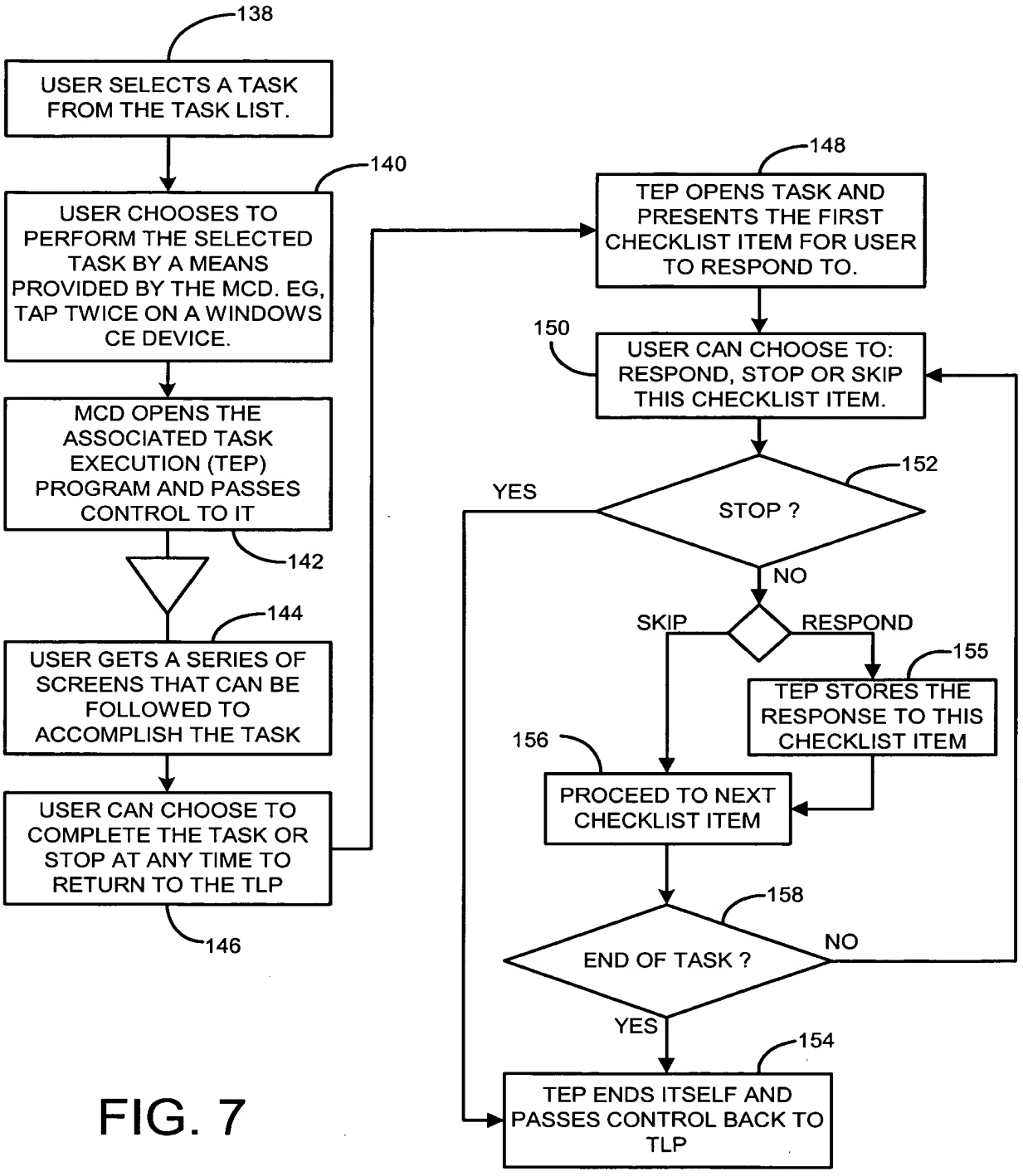
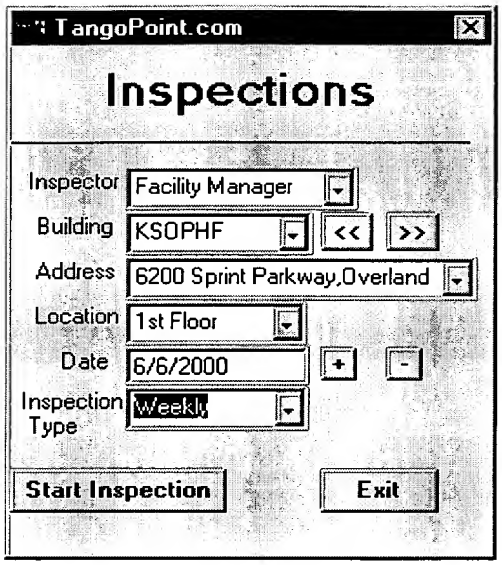
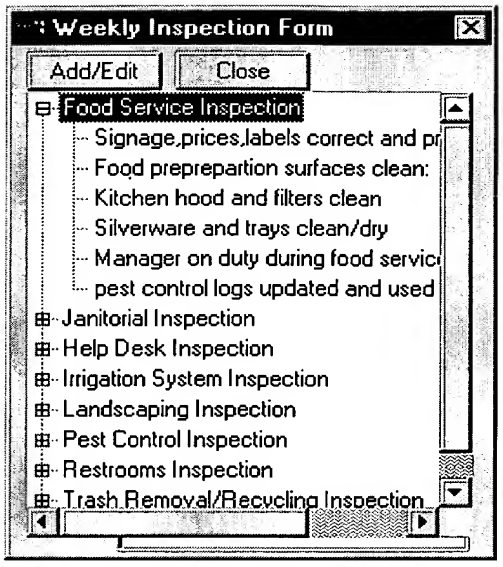

138
USER SELECTS A TASK FROM THE TASK LIST.
140
USER CHOOSES TO PERFORM THE SELECTED TASK BY A MEANS PROVIDED BY THE MCD. EG, TAP TWICE ON A WINDOWS CE DEVICE.
MCD OPENS THE ASSOCIATED TASK EXECUTION (TEP) PROGRAM AND PASSES CONTROL TO IT
142
144
USER GETS A SERIES OF SCREENS THAT CAN BE FOLLOWED TO ACCOMPLISH THE TASK
USER CAN CHOOSE TO COMPLETE THE TASK OR STOP AT ANY TIME TO RETURN TO THE TLP
146
148
TEP OPENS TASK AND PRESENTS THE FIRST CHECKLIST ITEM FOR USER TO RESPOND TO.
150
USER CAN CHOOSE TO: RESPOND, STOP OR SKIP THIS CHECKLIST ITEM.
152
STOP ?
YES
NO
SKIP
RESPOND
155
TEP STORES THE RESPONSE TO THIS CHECKLIST ITEM
156
PROCEED TO NEXT CHECKLIST ITEM
158
END OF TASK ?
NO
YES
154
TEP ENDS ITSELF AND PASSES CONTROL BACK TO TLP

FIG. 7

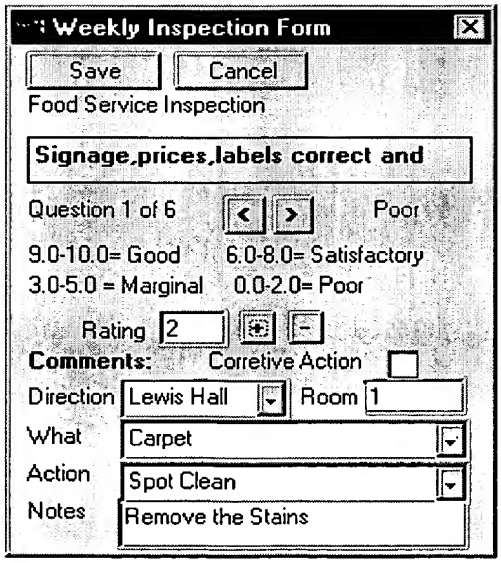
FIG. 8


TangoPoint.com
Inspections
Inspector
Facility Manager
Building
KSOPHF
<<
>>
Address
6200 Sprint Parkway,Overland
Location
1st Floor
Date
6/6/2000
+
-
Inspection Type
Weekly
Start Inspection
Exit

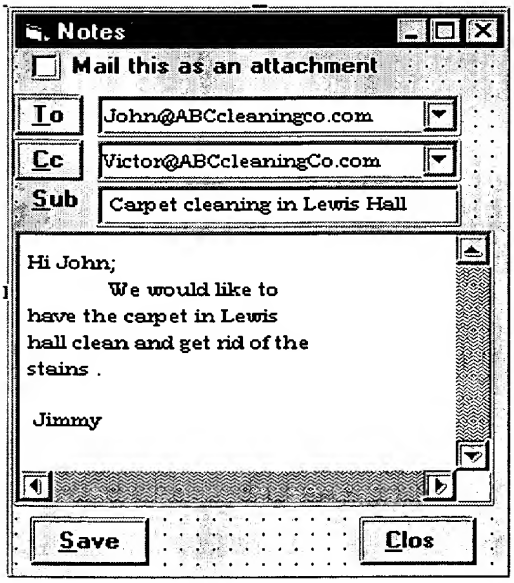
(a)


Weekly Inspection Form
Add/Edit
Close
Food Service Inspection
Signage,prices,labels correct and pr
Food preprepartion surfaces clean:
Kitchen hood and filters clean
Silverware and trays clean/dry
Manager on duty during food servic
pest control logs updated and used
Janitorial Inspection
Help Desk Inspection
Irrigation System Inspection
Landscaping Inspection
Pest Control Inspection
Restrooms Inspection
Trash Removal/Recycling Inspection

(b)


Weekly Inspection Form
Save
Cancel
Food Service Inspection
Signage,prices,labels correct and
Question 1 of 6
Poor
9.0-10.0= Good
6.0-8.0= Satisfactory
3.0-5.0 = Marginal
0.0-2.0= Poor
Rating
2
Comments:
Corretive Action
Direction
Lewis Hall
Room
1
What
Carpet
Action
Spot Clean
Notes
Remove the Stains

(c)


Notes
Mail this as an attachment
To
John@ABCcleaningco.com
Cc
Victor@ABCcleaningCo.com
Sub
Carpet cleaning in Lewis Hall
Hi John;
We would like to
have the carpet in Lewis
hall clean and get rid of the
stains .
Jimmy
Save
Clos

(d)

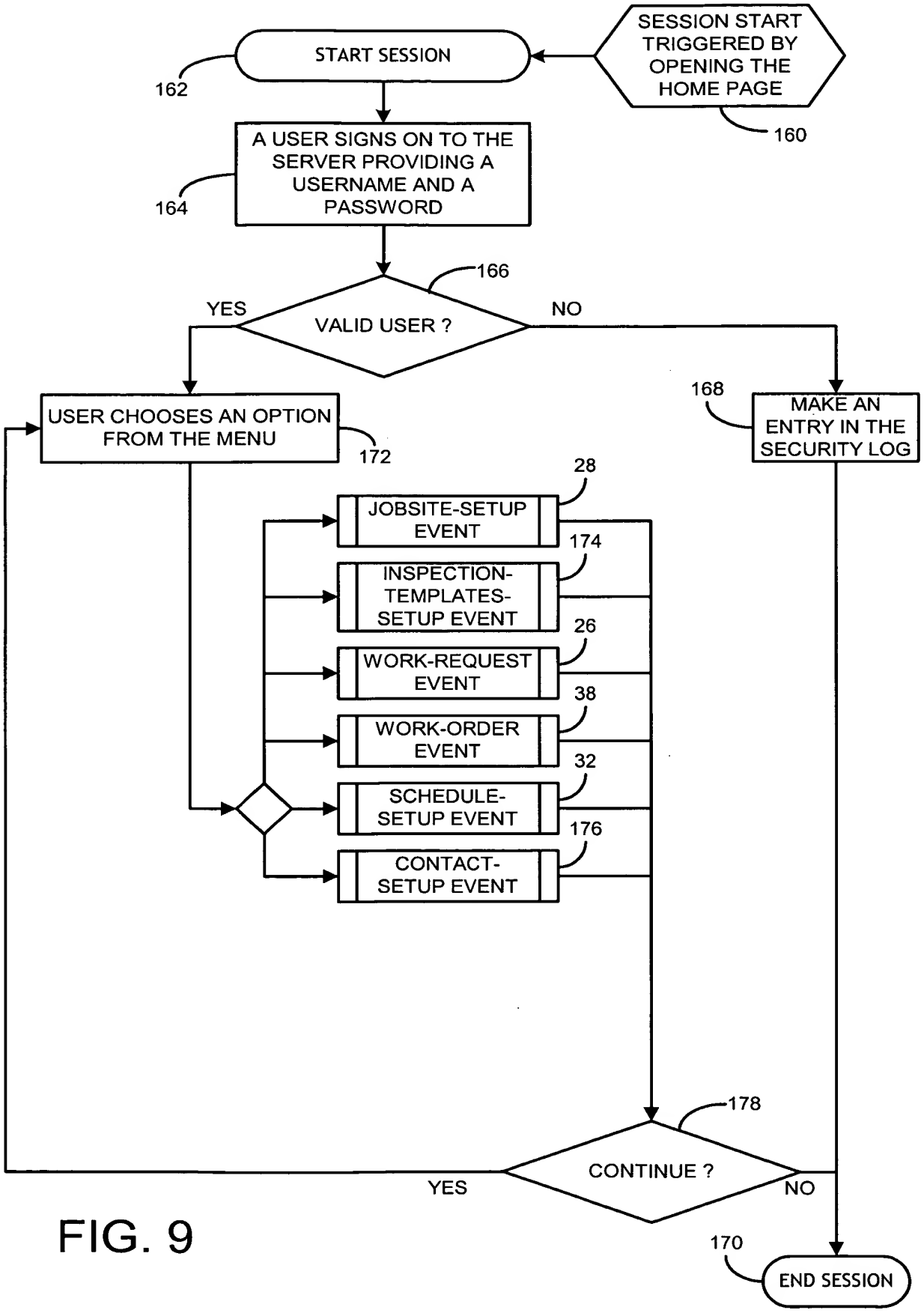

SESSION START TRIGGERED BY OPENING THE HOME PAGE
160
START SESSION
162
A USER SIGNS ON TO THE SERVER PROVIDING A USERNAME AND A PASSWORD
164
166
VALID USER ?
YES
NO
168
MAKE AN ENTRY IN THE SECURITY LOG
USER CHOOSES AN OPTION FROM THE MENU
172
28
JOBSITE-SETUP EVENT
174
INSPECTION-TEMPLATES-SETUP EVENT
26
WORK-REQUEST EVENT
38
WORK-ORDER EVENT
32
SCHEDULE-SETUP EVENT
176
CONTACT-SETUP EVENT
178
CONTINUE ?
YES
NO
170
END SESSION

FIG. 9

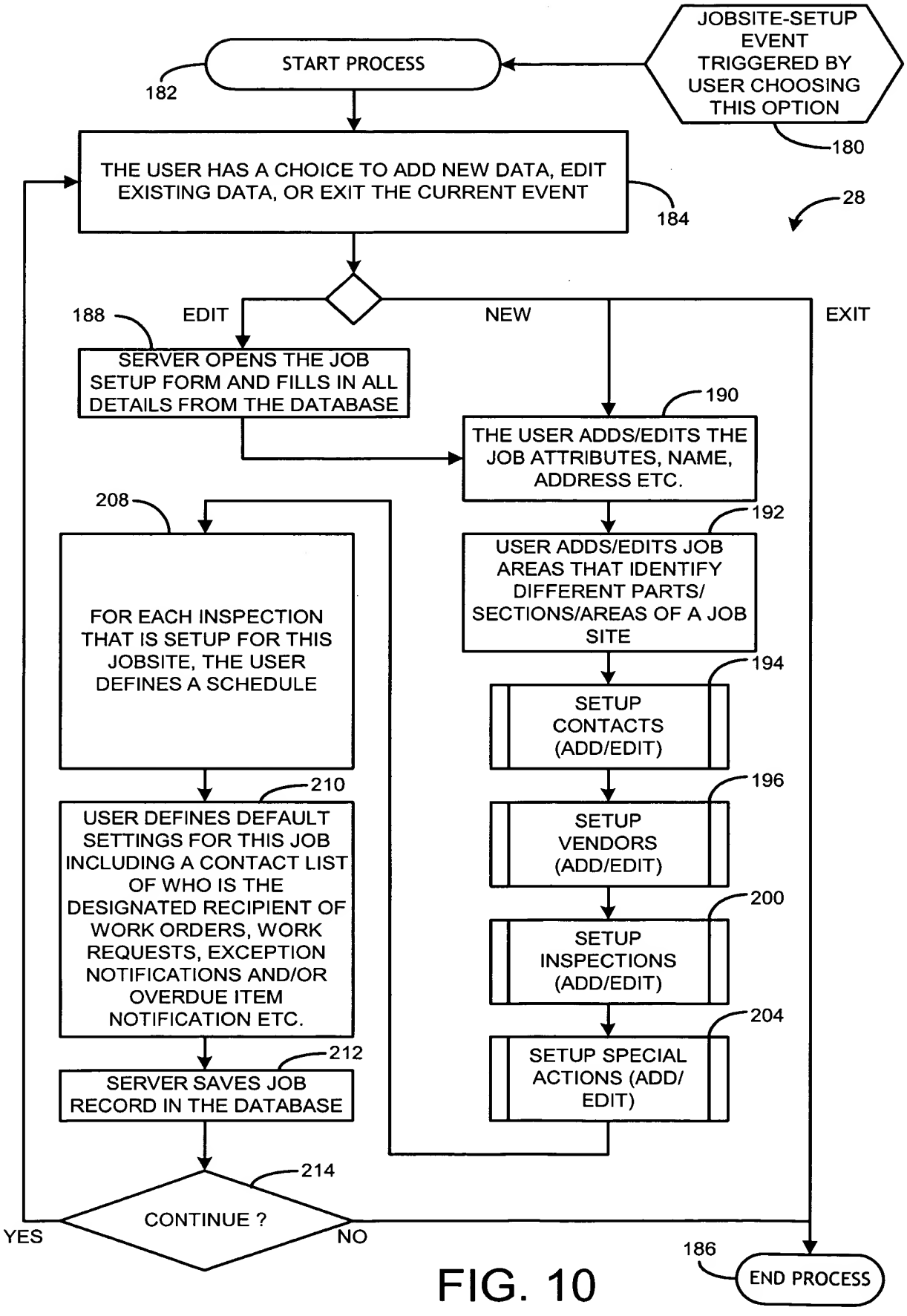

JOBSITE-SETUP EVENT TRIGGERED BY USER CHOOSING THIS OPTION
180
START PROCESS
182
THE USER HAS A CHOICE TO ADD NEW DATA, EDIT EXISTING DATA, OR EXIT THE CURRENT EVENT
184
28
188
EDIT
NEW
EXIT
SERVER OPENS THE JOB SETUP FORM AND FILLS IN ALL DETAILS FROM THE DATABASE
190
THE USER ADDS/EDITS THE JOB ATTRIBUTES, NAME, ADDRESS ETC.
208
FOR EACH INSPECTION THAT IS SETUP FOR THIS JOBSITE, THE USER DEFINES A SCHEDULE
192
USER ADDS/EDITS JOB AREAS THAT IDENTIFY DIFFERENT PARTS/ SECTIONS/AREAS OF A JOB SITE
194
SETUP CONTACTS (ADD/EDIT)
196
SETUP VENDORS (ADD/EDIT)
200
SETUP INSPECTIONS (ADD/EDIT)
204
SETUP SPECIAL ACTIONS (ADD/ EDIT)
210
USER DEFINES DEFAULT SETTINGS FOR THIS JOB INCLUDING A CONTACT LIST OF WHO IS THE DESIGNATED RECIPIENT OF WORK ORDERS, WORK REQUESTS, EXCEPTION NOTIFICATIONS AND/OR OVERDUE ITEM NOTIFICATION ETC.
212
SERVER SAVES JOB RECORD IN THE DATABASE
214
CONTINUE ?
YES
NO
186
END PROCESS

FIG. 10

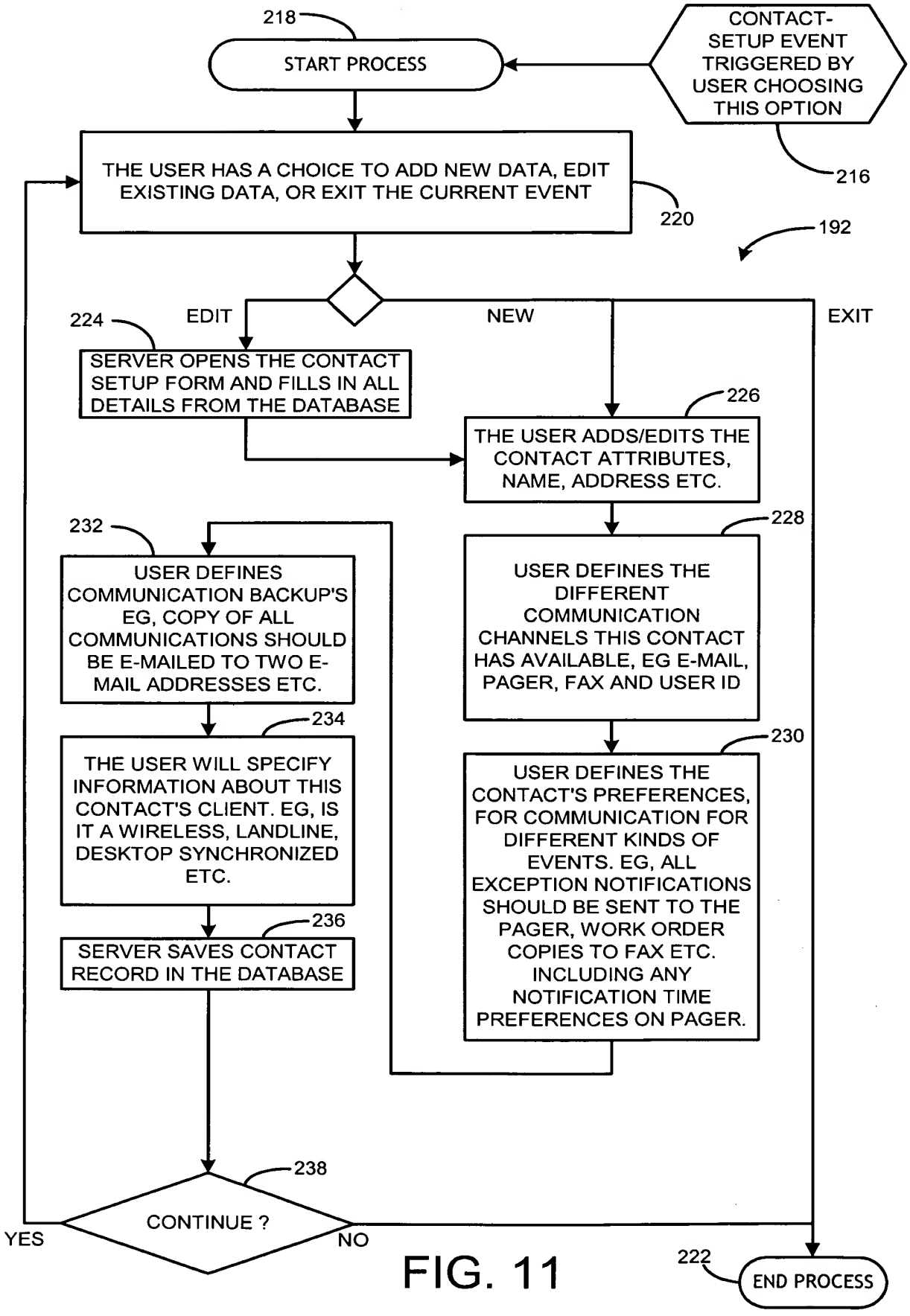

218
START PROCESS
CONTACT-SETUP EVENT TRIGGERED BY USER CHOOSING THIS OPTION
216
THE USER HAS A CHOICE TO ADD NEW DATA, EDIT EXISTING DATA, OR EXIT THE CURRENT EVENT
220
192
EDIT
NEW
EXIT
224
SERVER OPENS THE CONTACT SETUP FORM AND FILLS IN ALL DETAILS FROM THE DATABASE
226
THE USER ADDS/EDITS THE CONTACT ATTRIBUTES, NAME, ADDRESS ETC.
228
USER DEFINES THE DIFFERENT COMMUNICATION CHANNELS THIS CONTACT HAS AVAILABLE, EG E-MAIL, PAGER, FAX AND USER ID
230
USER DEFINES THE CONTACT'S PREFERENCES, FOR COMMUNICATION FOR DIFFERENT KINDS OF EVENTS. EG, ALL EXCEPTION NOTIFICATIONS SHOULD BE SENT TO THE PAGER, WORK ORDER COPIES TO FAX ETC. INCLUDING ANY NOTIFICATION TIME PREFERENCES ON PAGER.
232
USER DEFINES COMMUNICATION BACKUP'S EG, COPY OF ALL COMMUNICATIONS SHOULD BE E-MAILED TO TWO E-MAIL ADDRESSES ETC.
234
THE USER WILL SPECIFY INFORMATION ABOUT THIS CONTACT'S CLIENT. EG, IS IT A WIRELESS, LANDLINE, DESKTOP SYNCHRONIZED ETC.
236
SERVER SAVES CONTACT RECORD IN THE DATABASE
238
CONTINUE ?
YES
NO
222
END PROCESS

FIG. 11

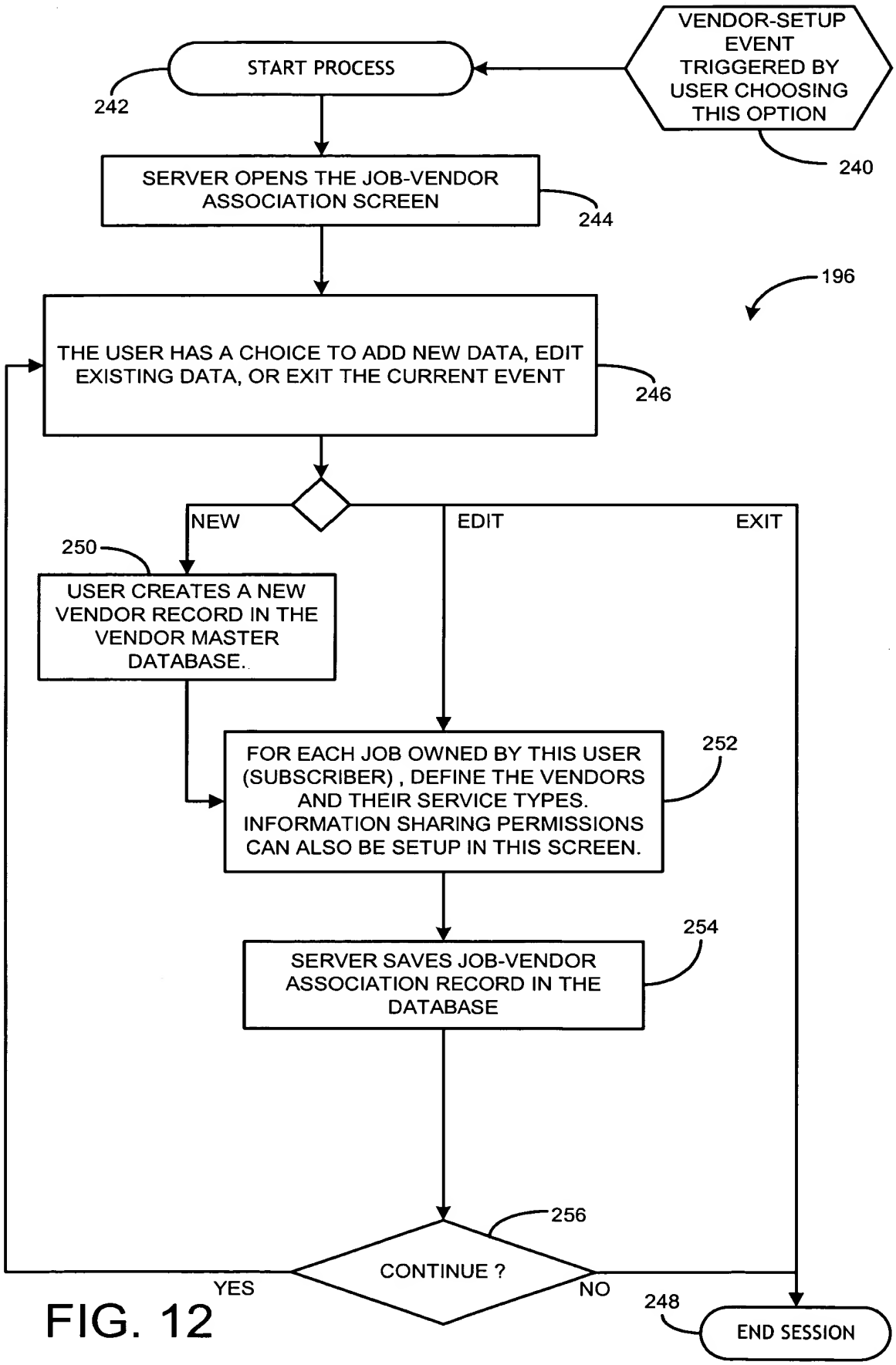

VENDOR-SETUP EVENT TRIGGERED BY USER CHOOSING THIS OPTION
240
START PROCESS
242
SERVER OPENS THE JOB-VENDOR ASSOCIATION SCREEN
244
196
THE USER HAS A CHOICE TO ADD NEW DATA, EDIT EXISTING DATA, OR EXIT THE CURRENT EVENT
246
NEW
EDIT
EXIT
250
USER CREATES A NEW VENDOR RECORD IN THE VENDOR MASTER DATABASE.
252
FOR EACH JOB OWNED BY THIS USER (SUBSCRIBER) , DEFINE THE VENDORS AND THEIR SERVICE TYPES. INFORMATION SHARING PERMISSIONS CAN ALSO BE SETUP IN THIS SCREEN.
254
SERVER SAVES JOB-VENDOR ASSOCIATION RECORD IN THE DATABASE
256
CONTINUE ?
YES
NO
248
END SESSION

FIG. 12

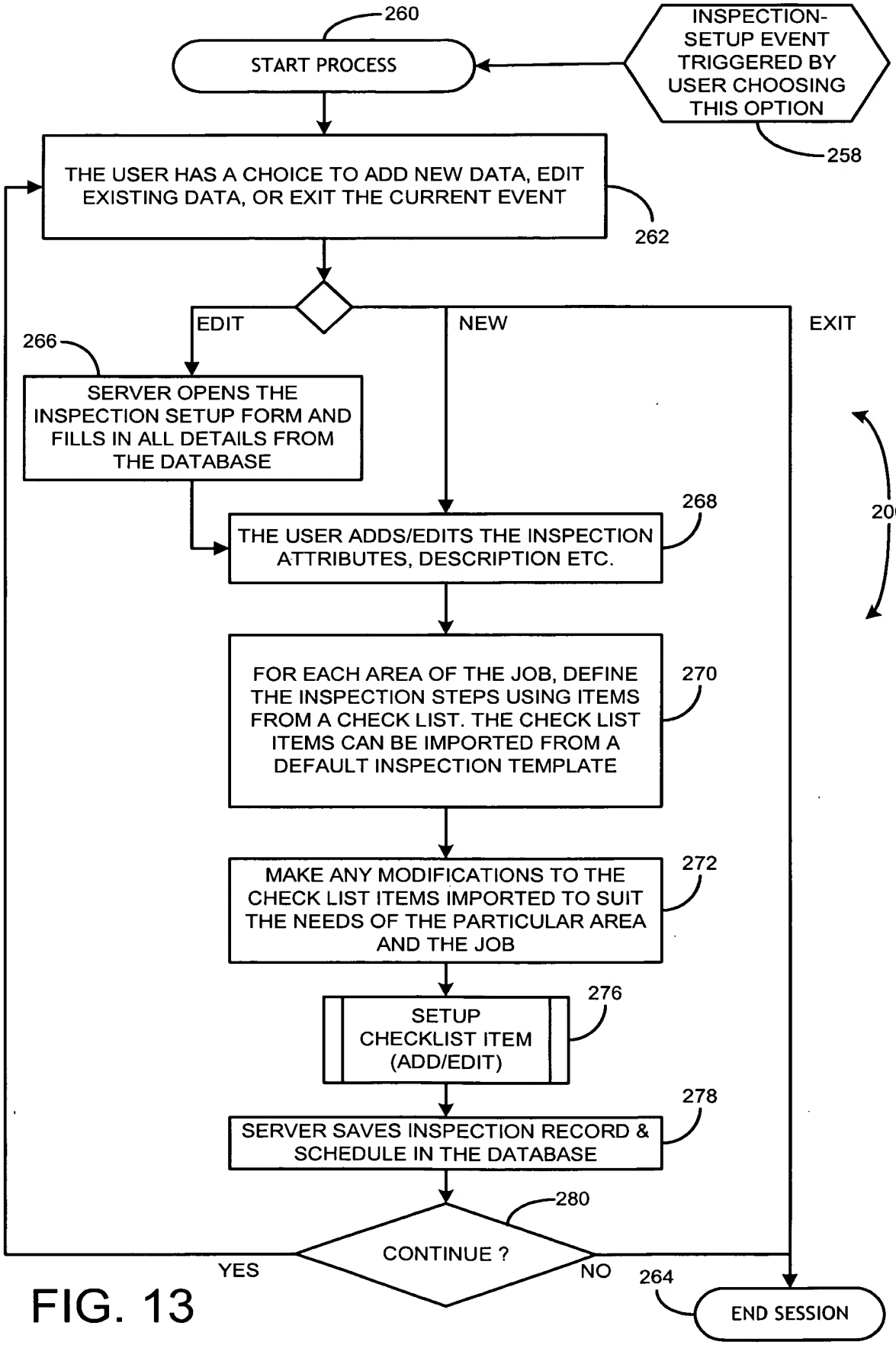

260
START PROCESS
INSPECTION-SETUP EVENT TRIGGERED BY USER CHOOSING THIS OPTION
258
THE USER HAS A CHOICE TO ADD NEW DATA, EDIT EXISTING DATA, OR EXIT THE CURRENT EVENT
262
EDIT
NEW
EXIT
266
SERVER OPENS THE INSPECTION SETUP FORM AND FILLS IN ALL DETAILS FROM THE DATABASE
268
THE USER ADDS/EDITS THE INSPECTION ATTRIBUTES, DESCRIPTION ETC.
200
FOR EACH AREA OF THE JOB, DEFINE THE INSPECTION STEPS USING ITEMS FROM A CHECK LIST. THE CHECK LIST ITEMS CAN BE IMPORTED FROM A DEFAULT INSPECTION TEMPLATE
270
MAKE ANY MODIFICATIONS TO THE CHECK LIST ITEMS IMPORTED TO SUIT THE NEEDS OF THE PARTICULAR AREA AND THE JOB
272
SETUP CHECKLIST ITEM (ADD/EDIT)
276
SERVER SAVES INSPECTION RECORD & SCHEDULE IN THE DATABASE
278
CONTINUE ?
280
YES
NO
264
END SESSION

FIG. 13

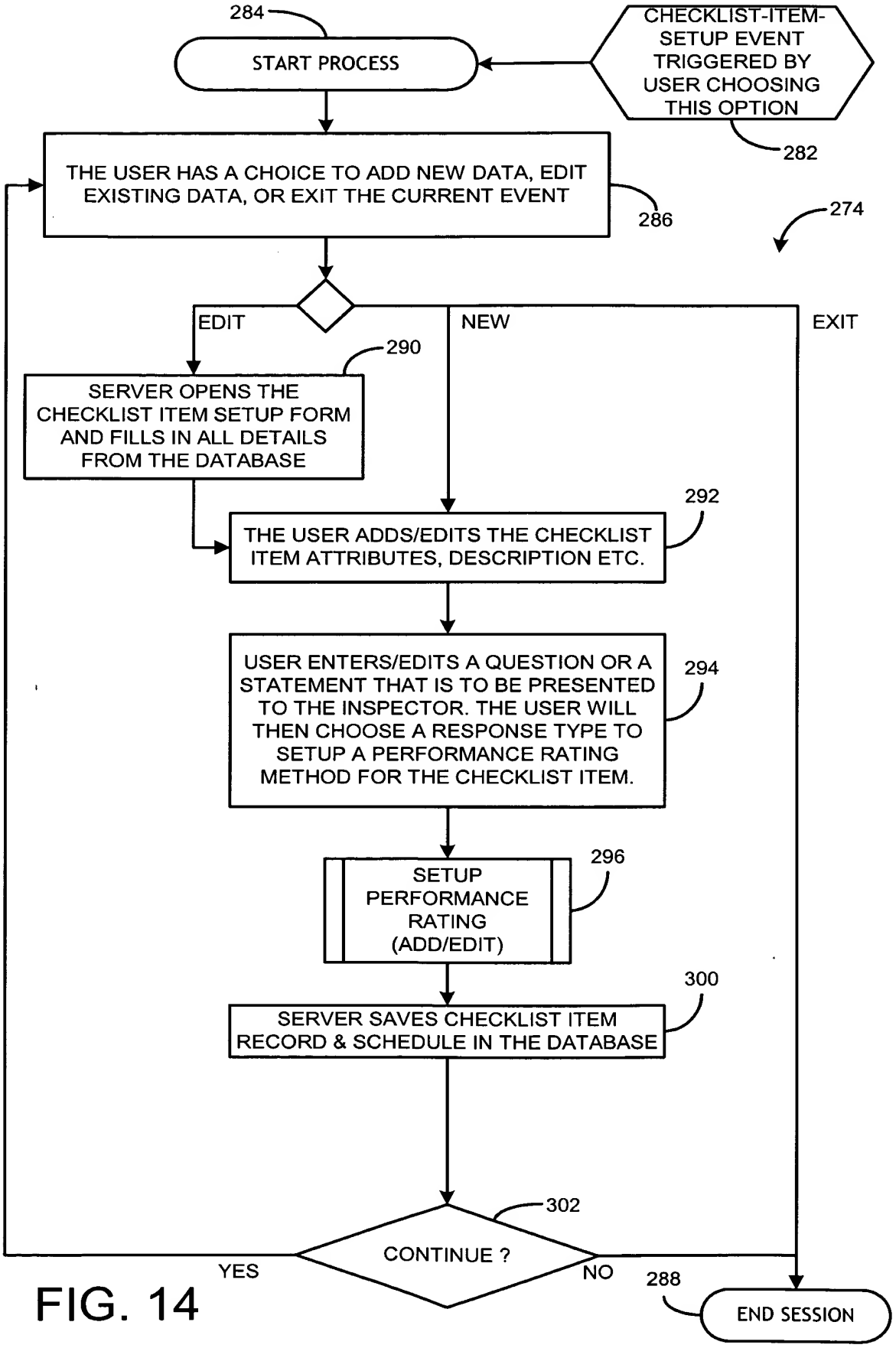

284
START PROCESS
CHECKLIST-ITEM-SETUP EVENT TRIGGERED BY USER CHOOSING THIS OPTION
282
THE USER HAS A CHOICE TO ADD NEW DATA, EDIT EXISTING DATA, OR EXIT THE CURRENT EVENT
286
274
EDIT
NEW
EXIT
290
SERVER OPENS THE CHECKLIST ITEM SETUP FORM AND FILLS IN ALL DETAILS FROM THE DATABASE
292
THE USER ADDS/EDITS THE CHECKLIST ITEM ATTRIBUTES, DESCRIPTION ETC.
294
USER ENTERS/EDITS A QUESTION OR A STATEMENT THAT IS TO BE PRESENTED TO THE INSPECTOR. THE USER WILL THEN CHOOSE A RESPONSE TYPE TO SETUP A PERFORMANCE RATING METHOD FOR THE CHECKLIST ITEM.
296
SETUP PERFORMANCE RATING (ADD/EDIT)
300
SERVER SAVES CHECKLIST ITEM RECORD & SCHEDULE IN THE DATABASE
302
CONTINUE ?
YES
NO
288
END SESSION

FIG. 14

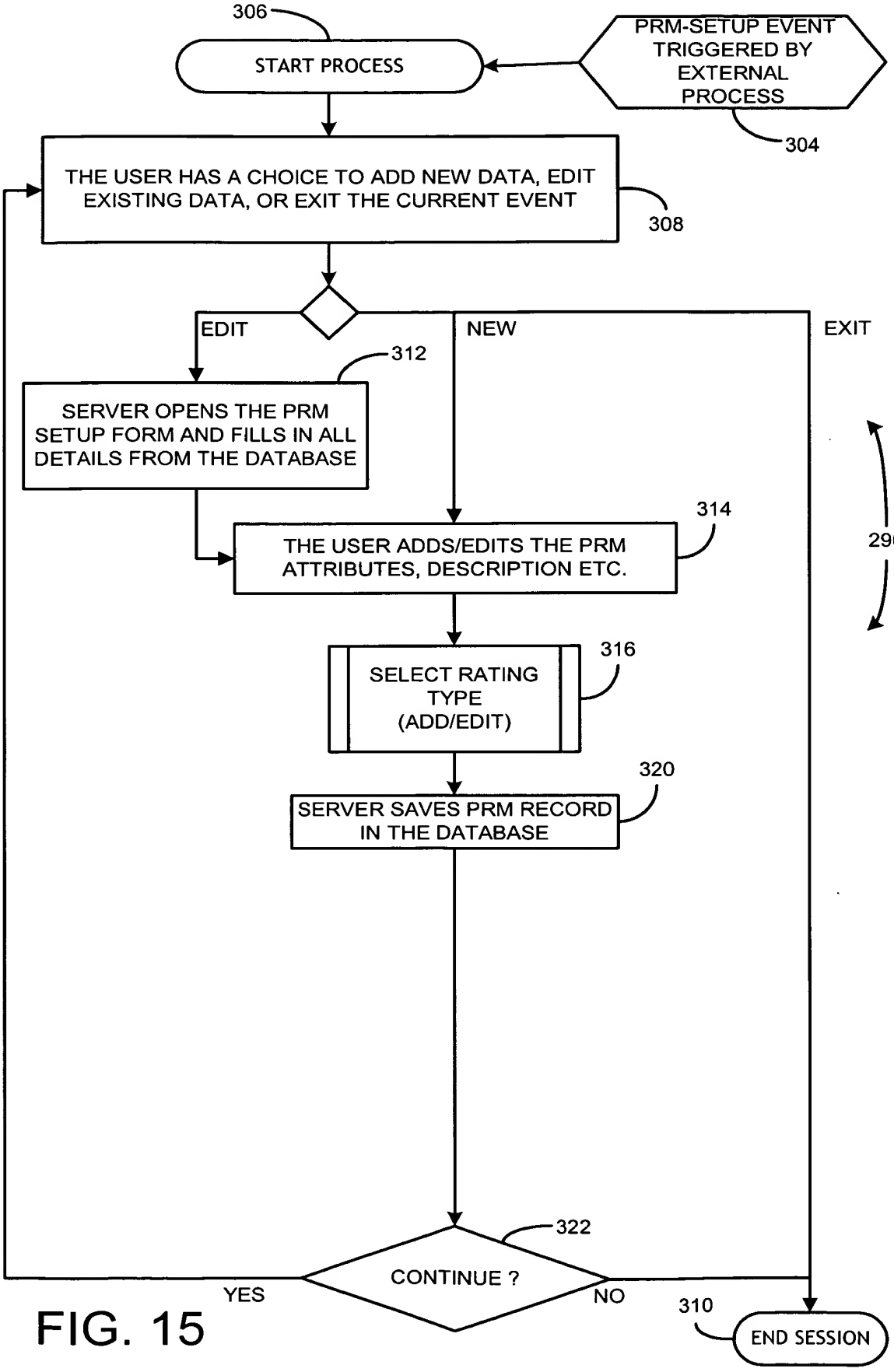

306
START PROCESS
PRM-SETUP EVENT TRIGGERED BY EXTERNAL PROCESS
304
THE USER HAS A CHOICE TO ADD NEW DATA, EDIT EXISTING DATA, OR EXIT THE CURRENT EVENT
308
EDIT
NEW
EXIT
312
SERVER OPENS THE PRM SETUP FORM AND FILLS IN ALL DETAILS FROM THE DATABASE
314
THE USER ADDS/EDITS THE PRM ATTRIBUTES, DESCRIPTION ETC.
296
316
SELECT RATING TYPE (ADD/EDIT)
320
SERVER SAVES PRM RECORD IN THE DATABASE
322
CONTINUE ?
YES
NO
310
END SESSION

FIG. 15

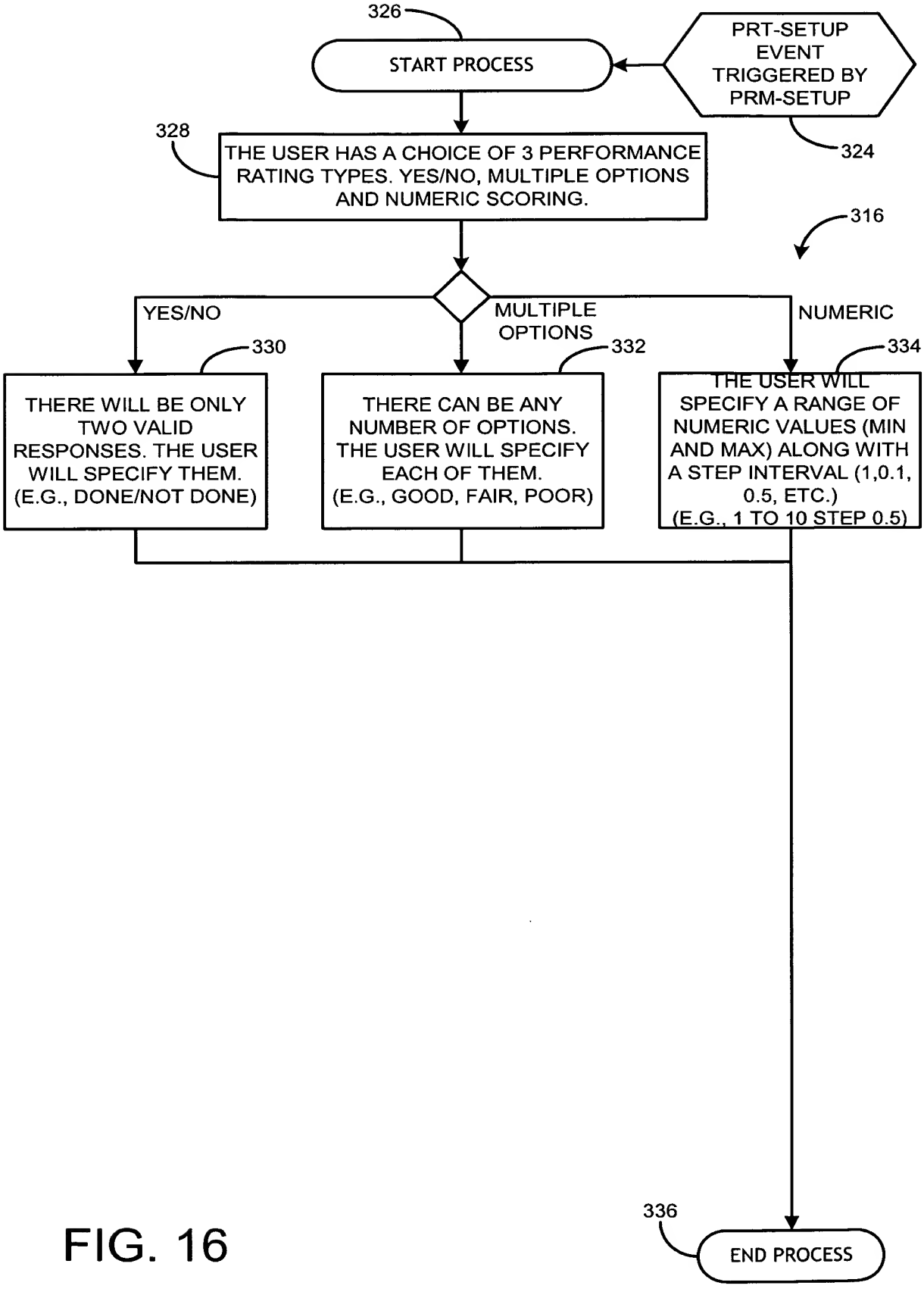

326
START PROCESS
PRT-SETUP EVENT TRIGGERED BY PRM-SETUP
324
328
THE USER HAS A CHOICE OF 3 PERFORMANCE RATING TYPES. YES/NO, MULTIPLE OPTIONS AND NUMERIC SCORING.
316
YES/NO
MULTIPLE OPTIONS
NUMERIC
330
332
334
THERE WILL BE ONLY TWO VALID RESPONSES. THE USER WILL SPECIFY THEM. (E.G., DONE/NOT DONE)
THERE CAN BE ANY NUMBER OF OPTIONS. THE USER WILL SPECIFY EACH OF THEM. (E.G., GOOD, FAIR, POOR)
THE USER WILL SPECIFY A RANGE OF NUMERIC VALUES (MIN AND MAX) ALONG WITH A STEP INTERVAL (1,0.1, 0.5, ETC.) (E.G., 1 TO 10 STEP 0.5)
336
END PROCESS

FIG. 16

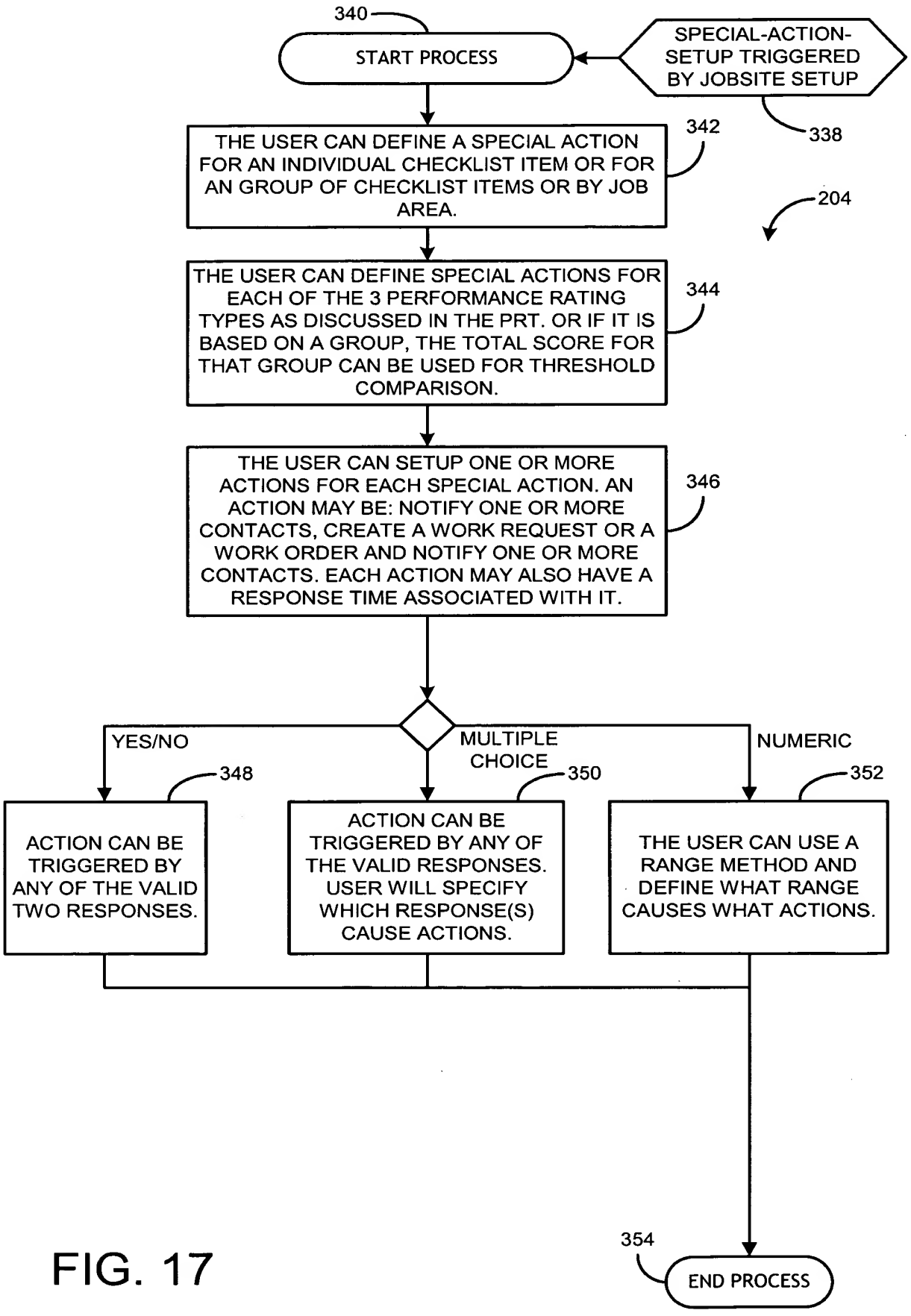

340
START PROCESS
SPECIAL-ACTION-SETUP TRIGGERED BY JOBSITE SETUP
338
THE USER CAN DEFINE A SPECIAL ACTION FOR AN INDIVIDUAL CHECKLIST ITEM OR FOR AN GROUP OF CHECKLIST ITEMS OR BY JOB AREA.
342
204
THE USER CAN DEFINE SPECIAL ACTIONS FOR EACH OF THE 3 PERFORMANCE RATING TYPES AS DISCUSSED IN THE PRT. OR IF IT IS BASED ON A GROUP, THE TOTAL SCORE FOR THAT GROUP CAN BE USED FOR THRESHOLD COMPARISON.
344
THE USER CAN SETUP ONE OR MORE ACTIONS FOR EACH SPECIAL ACTION. AN ACTION MAY BE: NOTIFY ONE OR MORE CONTACTS, CREATE A WORK REQUEST OR A WORK ORDER AND NOTIFY ONE OR MORE CONTACTS. EACH ACTION MAY ALSO HAVE A RESPONSE TIME ASSOCIATED WITH IT.
346
YES/NO
MULTIPLE CHOICE
NUMERIC
348
350
352
ACTION CAN BE TRIGGERED BY ANY OF THE VALID TWO RESPONSES.
ACTION CAN BE TRIGGERED BY ANY OF THE VALID RESPONSES. USER WILL SPECIFY WHICH RESPONSE(S) CAUSE ACTIONS.
THE USER CAN USE A RANGE METHOD AND DEFINE WHAT RANGE CAUSES WHAT ACTIONS.
354
END PROCESS

FIG. 17

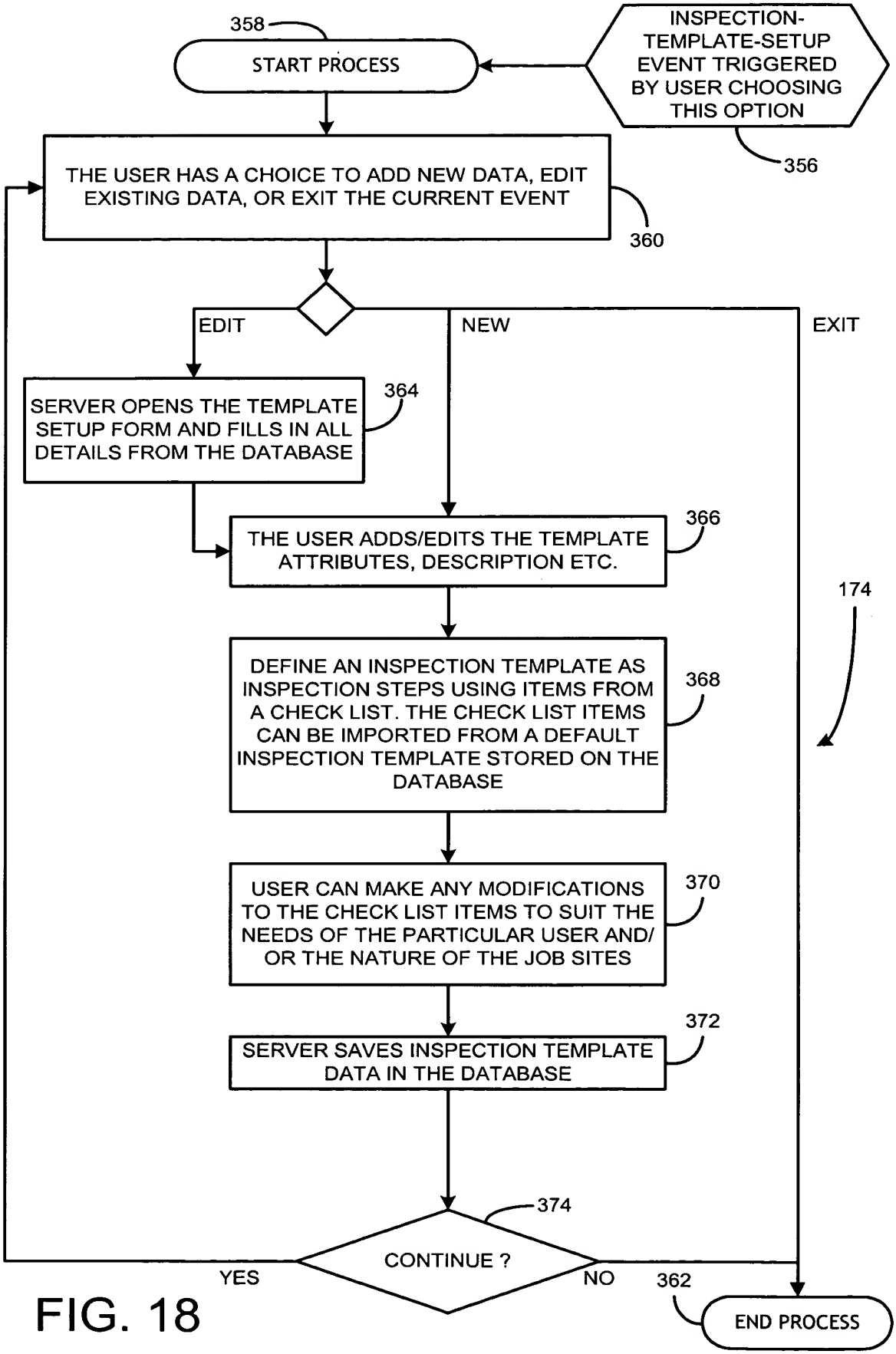

358
START PROCESS
INSPECTION-TEMPLATE-SETUP EVENT TRIGGERED BY USER CHOOSING THIS OPTION
356
THE USER HAS A CHOICE TO ADD NEW DATA, EDIT EXISTING DATA, OR EXIT THE CURRENT EVENT
360
EDIT
NEW
EXIT
SERVER OPENS THE TEMPLATE SETUP FORM AND FILLS IN ALL DETAILS FROM THE DATABASE
364
THE USER ADDS/EDITS THE TEMPLATE ATTRIBUTES, DESCRIPTION ETC.
366
174
DEFINE AN INSPECTION TEMPLATE AS INSPECTION STEPS USING ITEMS FROM A CHECK LIST. THE CHECK LIST ITEMS CAN BE IMPORTED FROM A DEFAULT INSPECTION TEMPLATE STORED ON THE DATABASE
368
USER CAN MAKE ANY MODIFICATIONS TO THE CHECK LIST ITEMS TO SUIT THE NEEDS OF THE PARTICULAR USER AND/ OR THE NATURE OF THE JOB SITES
370
SERVER SAVES INSPECTION TEMPLATE DATA IN THE DATABASE
372
374
CONTINUE ?
YES
NO
362
END PROCESS

FIG. 18

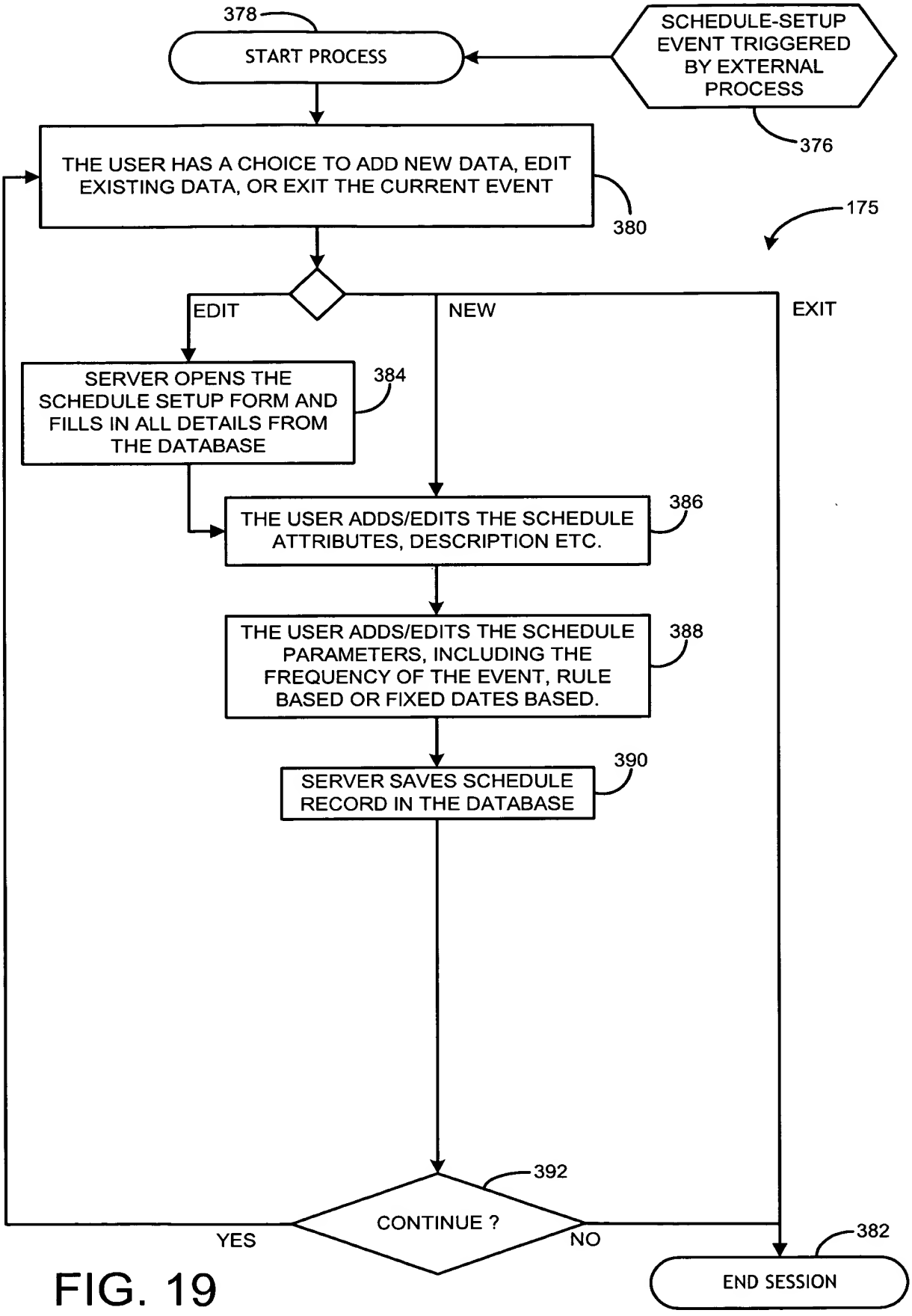

378
START PROCESS
SCHEDULE-SETUP EVENT TRIGGERED BY EXTERNAL PROCESS
376
THE USER HAS A CHOICE TO ADD NEW DATA, EDIT EXISTING DATA, OR EXIT THE CURRENT EVENT
380
175
EDIT
NEW
EXIT
SERVER OPENS THE SCHEDULE SETUP FORM AND FILLS IN ALL DETAILS FROM THE DATABASE
384
THE USER ADDS/EDITS THE SCHEDULE ATTRIBUTES, DESCRIPTION ETC.
386
THE USER ADDS/EDITS THE SCHEDULE PARAMETERS, INCLUDING THE FREQUENCY OF THE EVENT, RULE BASED OR FIXED DATES BASED.
388
SERVER SAVES SCHEDULE RECORD IN THE DATABASE
390
392
CONTINUE ?
YES
NO
382
END SESSION

FIG. 19

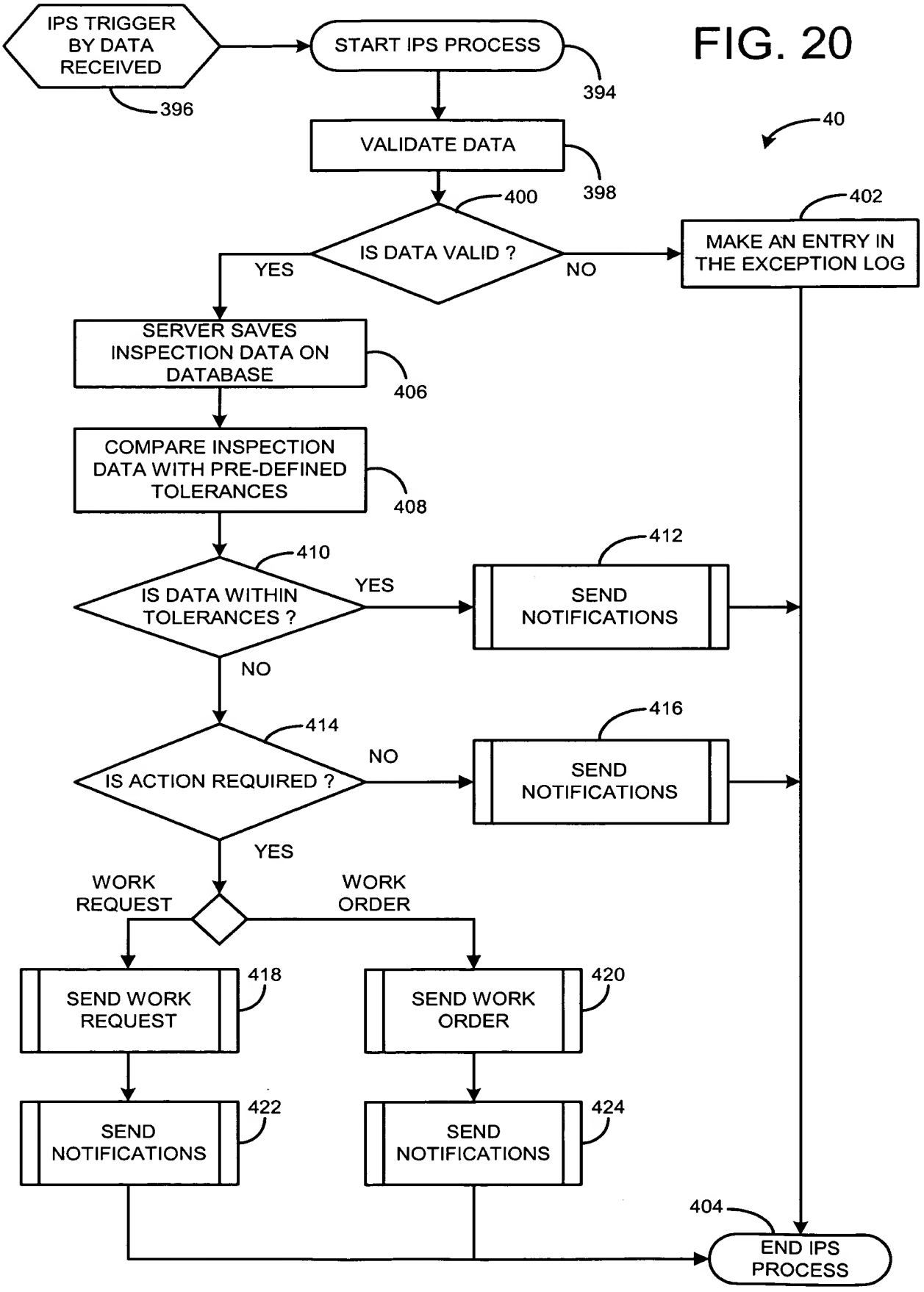

IPS TRIGGER BY DATA RECEIVED
396
START IPS PROCESS
394
VALIDATE DATA
398
400
IS DATA VALID ?
YES
NO
402
MAKE AN ENTRY IN THE EXCEPTION LOG
SERVER SAVES INSPECTION DATA ON DATABASE
406
COMPARE INSPECTION DATA WITH PRE-DEFINED TOLERANCES
408
410
IS DATA WITHIN TOLERANCES ?
YES
412
SEND NOTIFICATIONS
NO
414
IS ACTION REQUIRED ?
NO
416
SEND NOTIFICATIONS
YES
WORK REQUEST
WORK ORDER
SEND WORK REQUEST
418
SEND WORK ORDER
420
SEND NOTIFICATIONS
422
SEND NOTIFICATIONS
424
404
END IPS PROCESS
40

FIG. 20

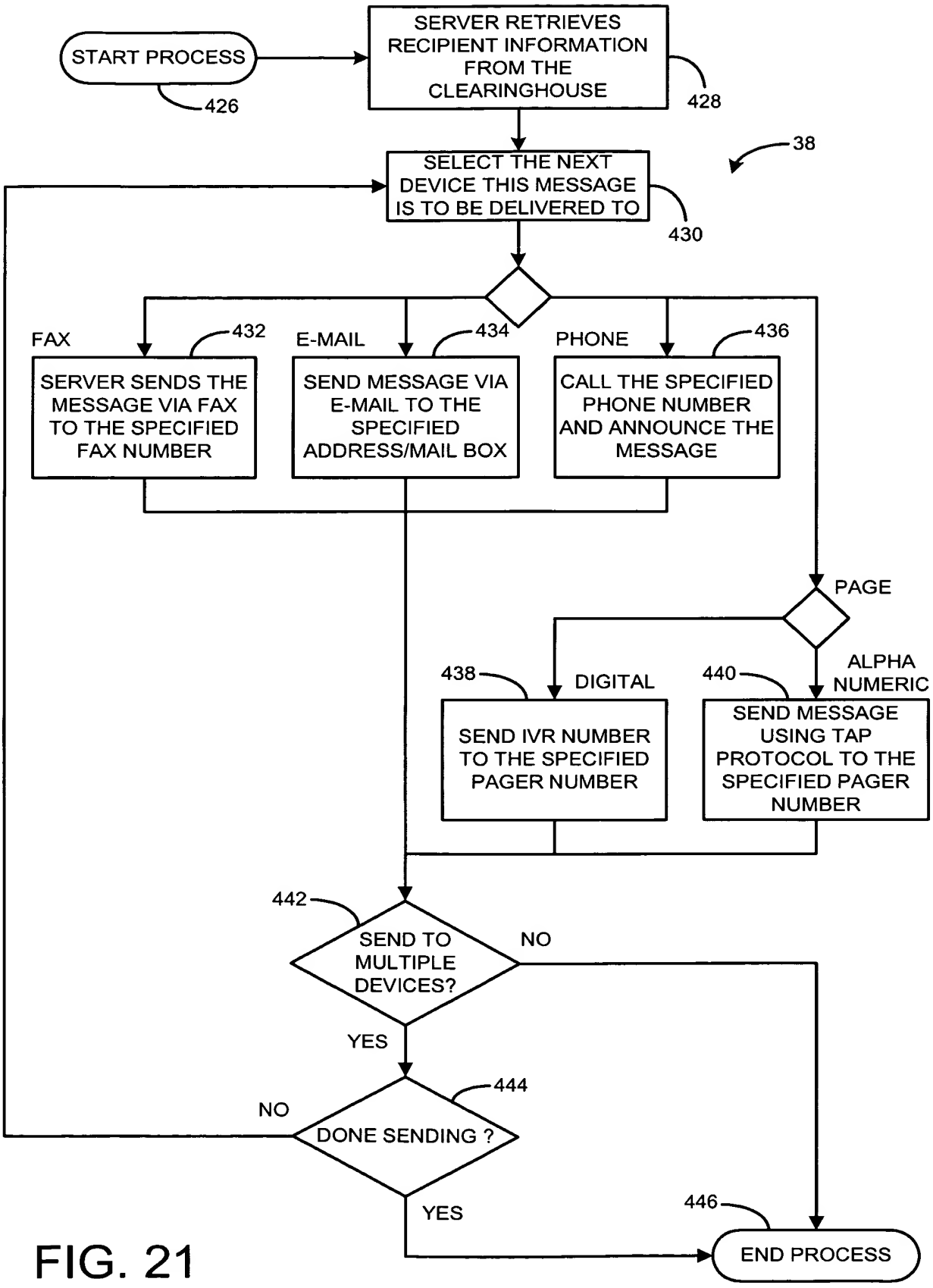

START PROCESS
426
SERVER RETRIEVES RECIPIENT INFORMATION FROM THE CLEARINGHOUSE
428
38
SELECT THE NEXT DEVICE THIS MESSAGE IS TO BE DELIVERED TO
430
FAX
432
SERVER SENDS THE MESSAGE VIA FAX TO THE SPECIFIED FAX NUMBER
E-MAIL
434
SEND MESSAGE VIA E-MAIL TO THE SPECIFIED ADDRESS/MAIL BOX
PHONE
436
CALL THE SPECIFIED PHONE NUMBER AND ANNOUNCE THE MESSAGE
PAGE
438
DIGITAL
SEND IVR NUMBER TO THE SPECIFIED PAGER NUMBER
440
ALPHA NUMERIC
SEND MESSAGE USING TAP PROTOCOL TO THE SPECIFIED PAGER NUMBER
442
SEND TO MULTIPLE DEVICES?
NO
YES
444
DONE SENDING ?
NO
YES
446
END PROCESS

FIG. 21

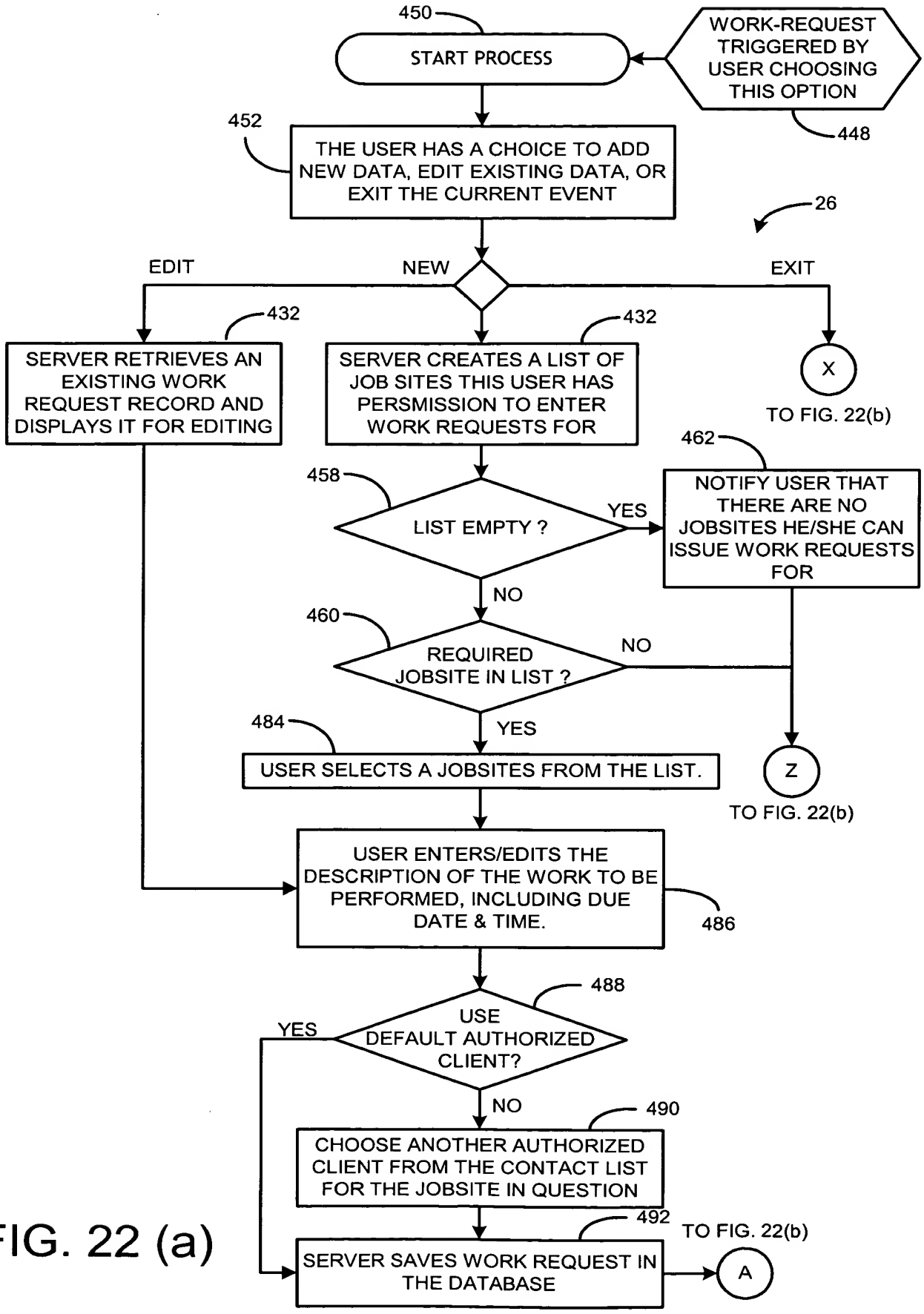

450
START PROCESS
WORK-REQUEST TRIGGERED BY USER CHOOSING THIS OPTION
448
452
THE USER HAS A CHOICE TO ADD NEW DATA, EDIT EXISTING DATA, OR EXIT THE CURRENT EVENT
26
EDIT
NEW
EXIT
432
SERVER RETRIEVES AN EXISTING WORK REQUEST RECORD AND DISPLAYS IT FOR EDITING
432
SERVER CREATES A LIST OF JOB SITES THIS USER HAS PERSMISSION TO ENTER WORK REQUESTS FOR
X
TO FIG. 22(b)
462
458
LIST EMPTY ?
YES
NOTIFY USER THAT THERE ARE NO JOBSITES HE/SHE CAN ISSUE WORK REQUESTS FOR
NO
460
REQUIRED JOBSITE IN LIST ?
NO
484
YES
USER SELECTS A JOBSITES FROM THE LIST.
Z
TO FIG. 22(b)
USER ENTERS/EDITS THE DESCRIPTION OF THE WORK TO BE PERFORMED, INCLUDING DUE DATE & TIME.
486
488
USE DEFAULT AUTHORIZED CLIENT?
YES
NO
490
CHOOSE ANOTHER AUTHORIZED CLIENT FROM THE CONTACT LIST FOR THE JOBSITE IN QUESTION
492
TO FIG. 22(b)
SERVER SAVES WORK REQUEST IN THE DATABASE
A

FIG. 22 (a)

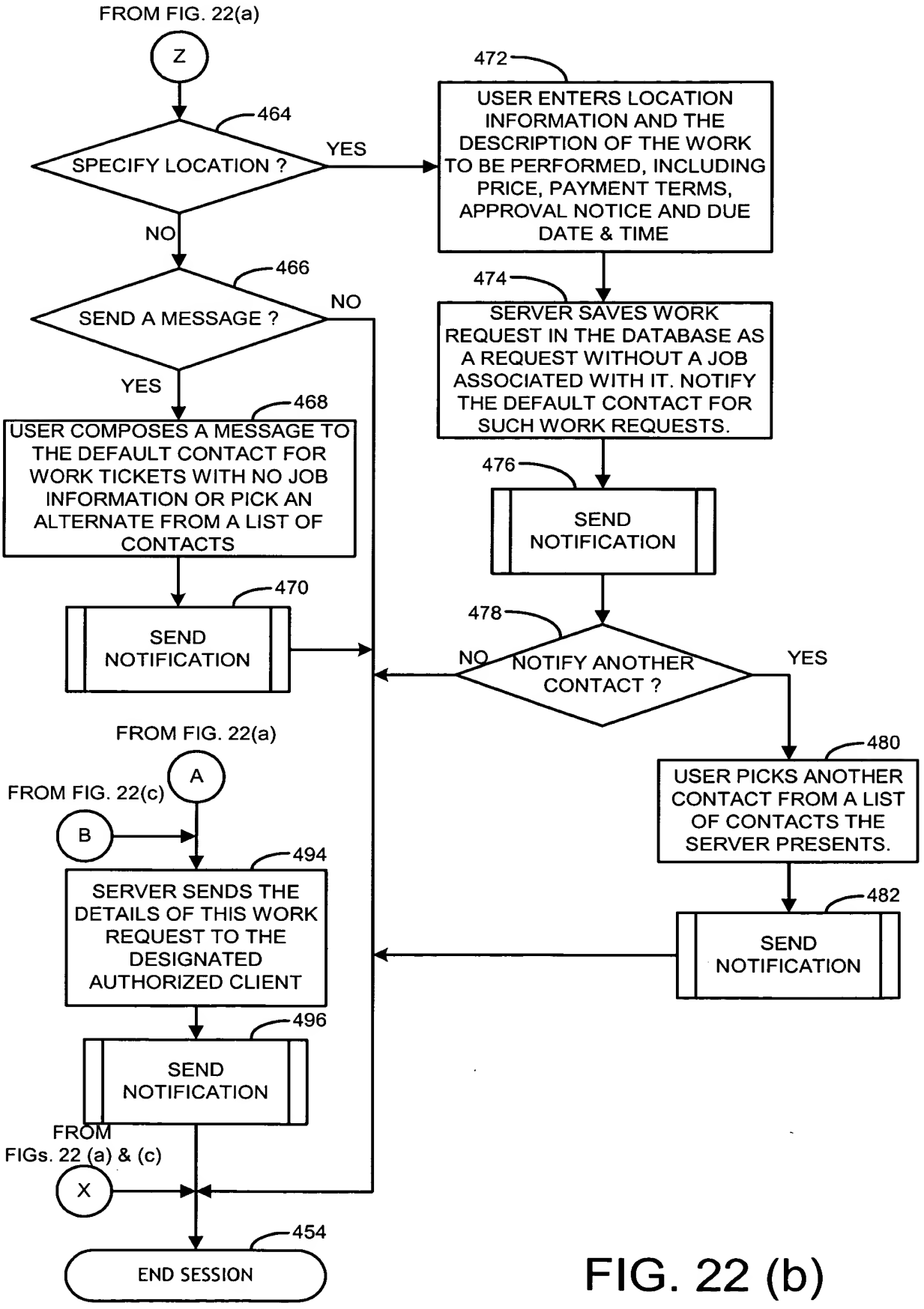

FROM FIG. 22(a)
Z
464
SPECIFY LOCATION ?
YES
NO
466
SEND A MESSAGE ?
NO
YES
468
USER COMPOSES A MESSAGE TO THE DEFAULT CONTACT FOR WORK TICKETS WITH NO JOB INFORMATION OR PICK AN ALTERNATE FROM A LIST OF CONTACTS
470
SEND NOTIFICATION
472
USER ENTERS LOCATION INFORMATION AND THE DESCRIPTION OF THE WORK TO BE PERFORMED, INCLUDING PRICE, PAYMENT TERMS, APPROVAL NOTICE AND DUE DATE & TIME
474
SERVER SAVES WORK REQUEST IN THE DATABASE AS A REQUEST WITHOUT A JOB ASSOCIATED WITH IT. NOTIFY THE DEFAULT CONTACT FOR SUCH WORK REQUESTS.
476
SEND NOTIFICATION
478
NO
NOTIFY ANOTHER CONTACT ?
YES
480
USER PICKS ANOTHER CONTACT FROM A LIST OF CONTACTS THE SERVER PRESENTS.
482
SEND NOTIFICATION
FROM FIG. 22(a)
A
FROM FIG. 22(c)
B
494
SERVER SENDS THE DETAILS OF THIS WORK REQUEST TO THE DESIGNATED AUTHORIZED CLIENT
496
SEND NOTIFICATION
FROM FIGs. 22 (a) & (c)
X
454
END SESSION

FIG. 22 (b)

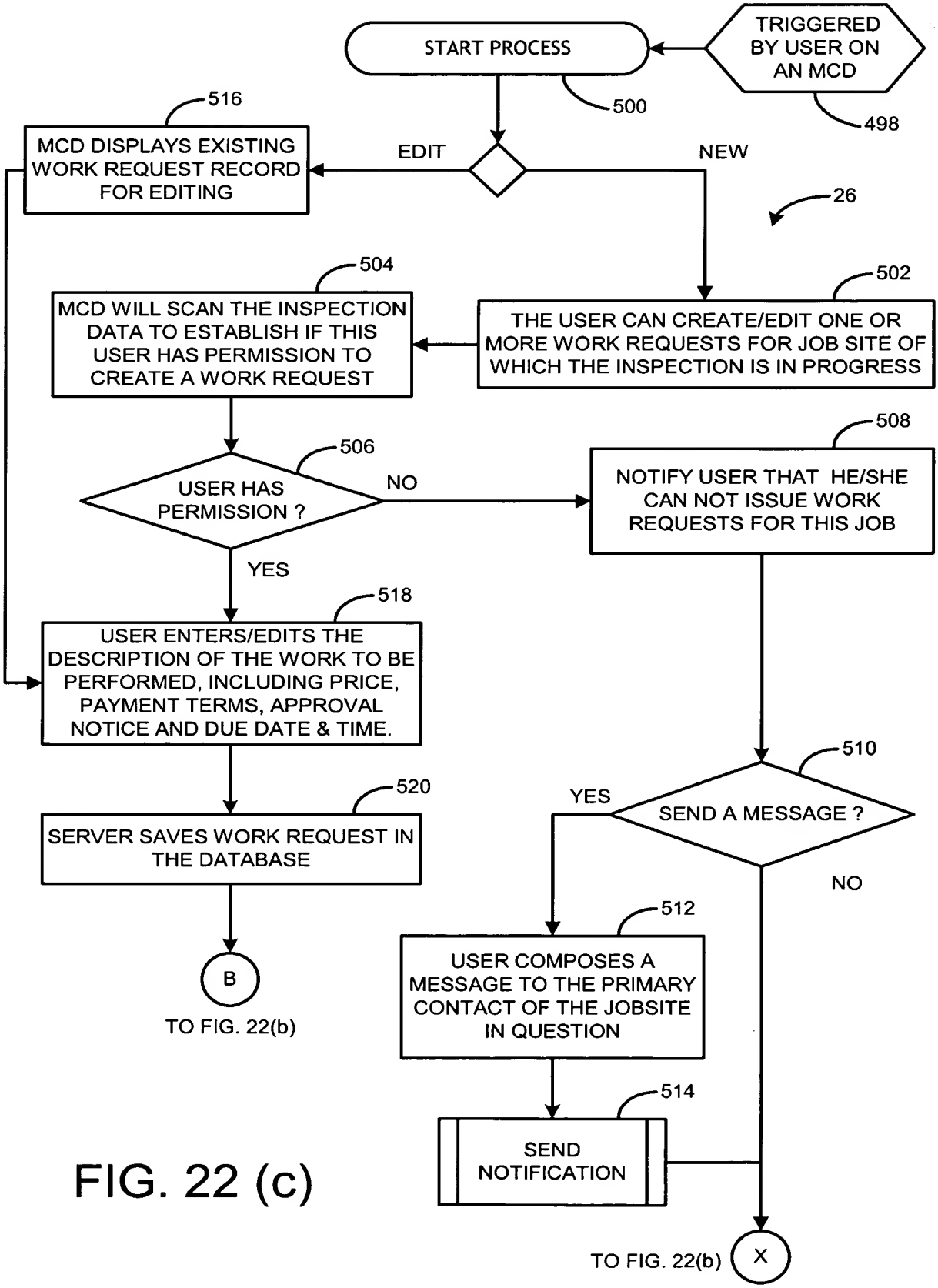

START PROCESS
TRIGGERED BY USER ON AN MCD
500
498
516
MCD DISPLAYS EXISTING WORK REQUEST RECORD FOR EDITING
EDIT
NEW
26
504
MCD WILL SCAN THE INSPECTION DATA TO ESTABLISH IF THIS USER HAS PERMISSION TO CREATE A WORK REQUEST
502
THE USER CAN CREATE/EDIT ONE OR MORE WORK REQUESTS FOR JOB SITE OF WHICH THE INSPECTION IS IN PROGRESS
506
USER HAS PERMISSION ?
NO
508
NOTIFY USER THAT HE/SHE CAN NOT ISSUE WORK REQUESTS FOR THIS JOB
YES
518
USER ENTERS/EDITS THE DESCRIPTION OF THE WORK TO BE PERFORMED, INCLUDING PRICE, PAYMENT TERMS, APPROVAL NOTICE AND DUE DATE & TIME.
510
YES
SEND A MESSAGE ?
NO
520
SERVER SAVES WORK REQUEST IN THE DATABASE
512
USER COMPOSES A MESSAGE TO THE PRIMARY CONTACT OF THE JOBSITE IN QUESTION
B
TO FIG. 22(b)
514
SEND NOTIFICATION
TO FIG. 22(b)
X

FIG. 22 (c)

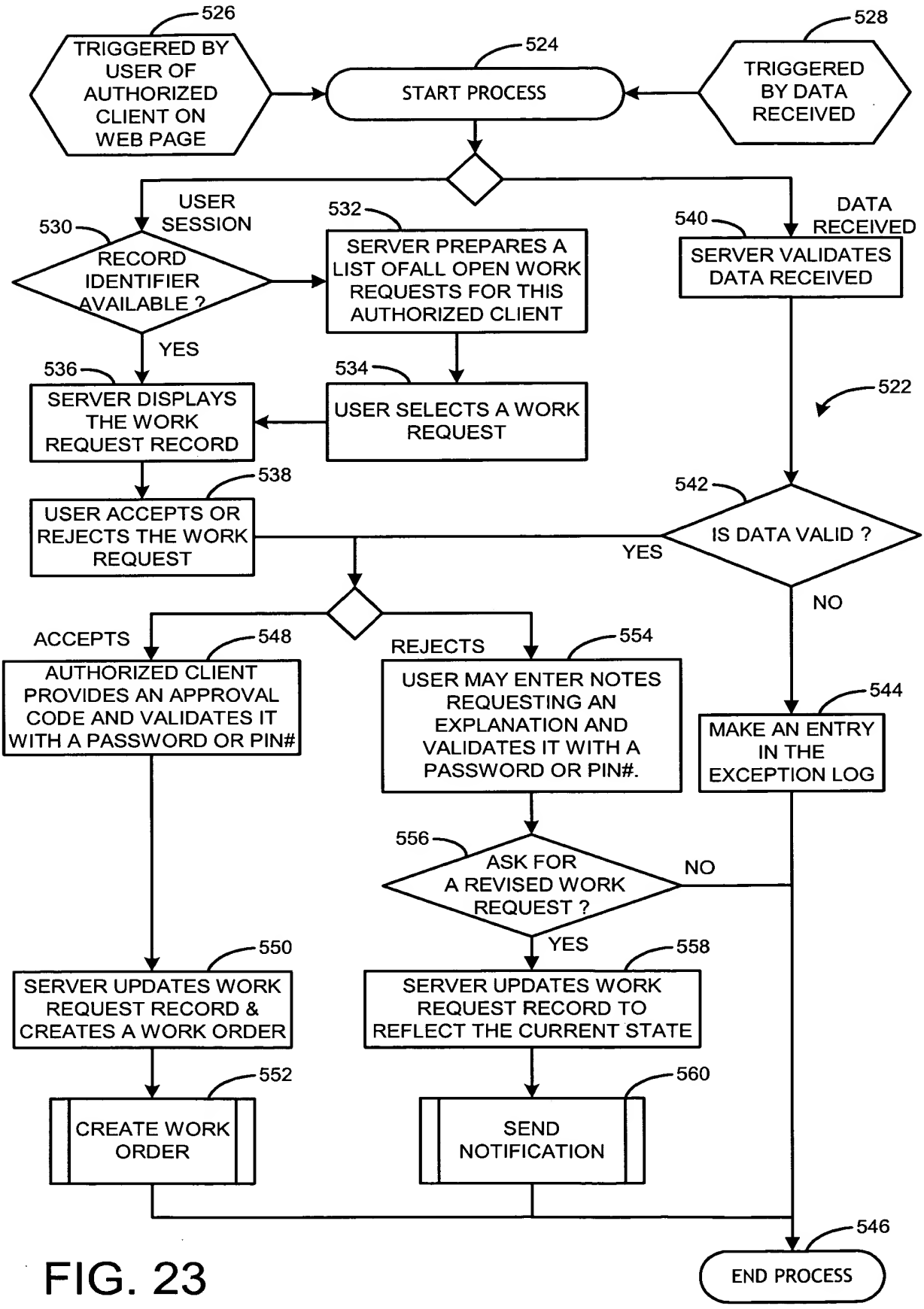

526
TRIGGERED BY USER OF AUTHORIZED CLIENT ON WEB PAGE
524
START PROCESS
528
TRIGGERED BY DATA RECEIVED
USER SESSION
DATA RECEIVED
530
RECORD IDENTIFIER AVAILABLE ?
532
SERVER PREPARES A LIST OFALL OPEN WORK REQUESTS FOR THIS AUTHORIZED CLIENT
540
SERVER VALIDATES DATA RECEIVED
YES
536
SERVER DISPLAYS THE WORK REQUEST RECORD
534
USER SELECTS A WORK REQUEST
522
538
USER ACCEPTS OR REJECTS THE WORK REQUEST
542
IS DATA VALID ?
YES
NO
ACCEPTS
548
AUTHORIZED CLIENT PROVIDES AN APPROVAL CODE AND VALIDATES IT WITH A PASSWORD OR PIN#
REJECTS
554
USER MAY ENTER NOTES REQUESTING AN EXPLANATION AND VALIDATES IT WITH A PASSWORD OR PIN#.
544
MAKE AN ENTRY IN THE EXCEPTION LOG
556
ASK FOR A REVISED WORK REQUEST ?
NO
YES
550
SERVER UPDATES WORK REQUEST RECORD & CREATES A WORK ORDER
558
SERVER UPDATES WORK REQUEST RECORD TO REFLECT THE CURRENT STATE
552
CREATE WORK ORDER
560
SEND NOTIFICATION
546
END PROCESS

FIG. 23

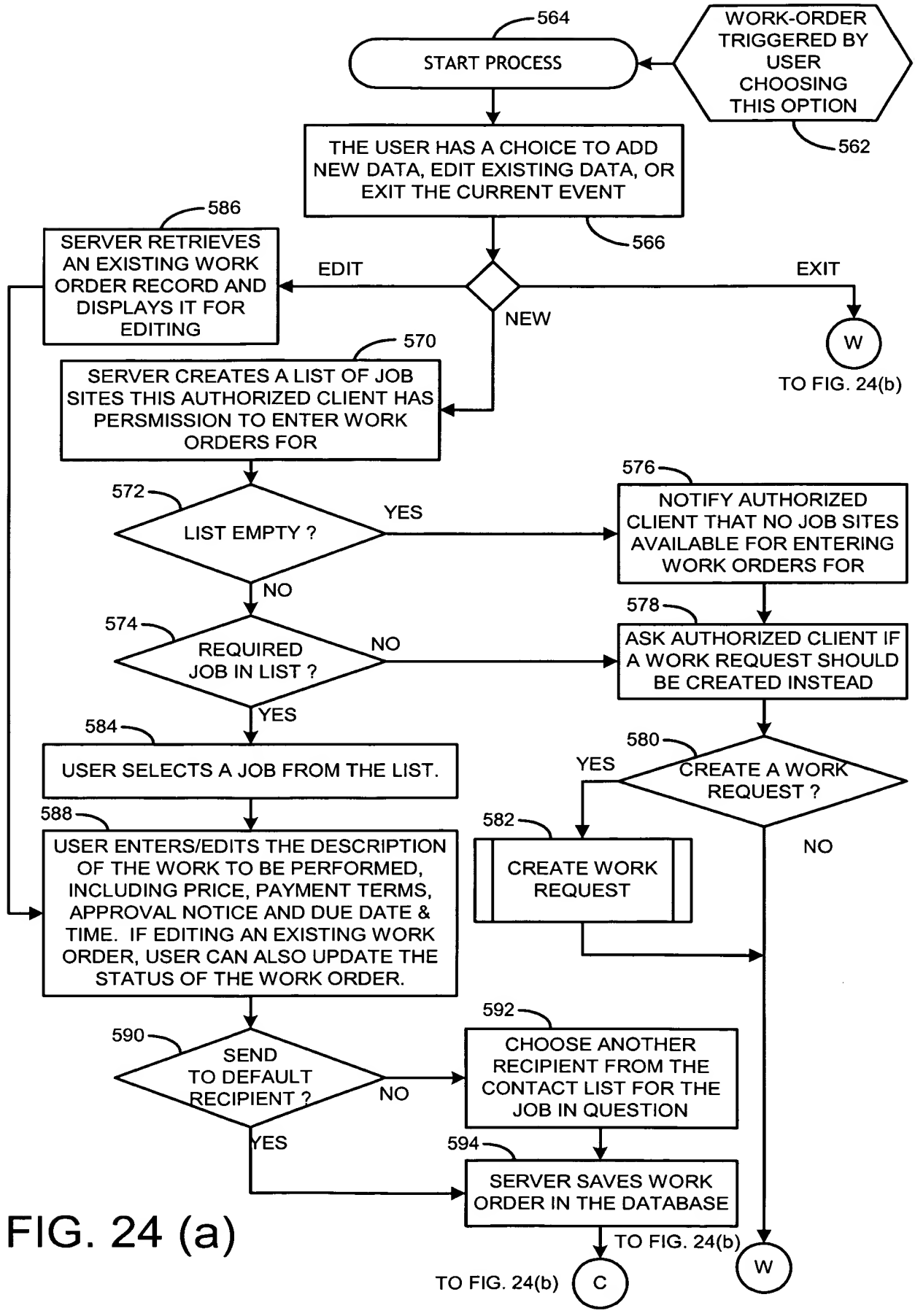

564
START PROCESS
WORK-ORDER TRIGGERED BY USER CHOOSING THIS OPTION
562
THE USER HAS A CHOICE TO ADD NEW DATA, EDIT EXISTING DATA, OR EXIT THE CURRENT EVENT
566
586
SERVER RETRIEVES AN EXISTING WORK ORDER RECORD AND DISPLAYS IT FOR EDITING
EDIT
EXIT
NEW
W
TO FIG. 24(b)
570
SERVER CREATES A LIST OF JOB SITES THIS AUTHORIZED CLIENT HAS PERSMISSION TO ENTER WORK ORDERS FOR
572
LIST EMPTY ?
YES
576
NOTIFY AUTHORIZED CLIENT THAT NO JOB SITES AVAILABLE FOR ENTERING WORK ORDERS FOR
NO
574
REQUIRED JOB IN LIST ?
NO
578
ASK AUTHORIZED CLIENT IF A WORK REQUEST SHOULD BE CREATED INSTEAD
YES
584
USER SELECTS A JOB FROM THE LIST.
580
CREATE A WORK REQUEST ?
YES
NO
588
USER ENTERS/EDITS THE DESCRIPTION OF THE WORK TO BE PERFORMED, INCLUDING PRICE, PAYMENT TERMS, APPROVAL NOTICE AND DUE DATE & TIME. IF EDITING AN EXISTING WORK ORDER, USER CAN ALSO UPDATE THE STATUS OF THE WORK ORDER.
582
CREATE WORK REQUEST
592
590
SEND TO DEFAULT RECIPIENT ?
NO
CHOOSE ANOTHER RECIPIENT FROM THE CONTACT LIST FOR THE JOB IN QUESTION
YES
594
SERVER SAVES WORK ORDER IN THE DATABASE
TO FIG. 24(b)
TO FIG. 24(b)
C
W

FIG. 24 (a)

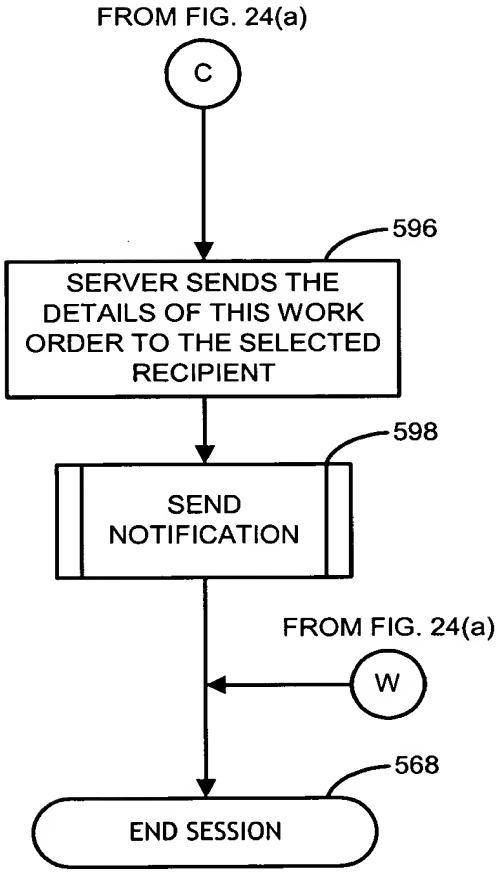

FROM FIG. 24(a)
C
596
SERVER SENDS THE DETAILS OF THIS WORK ORDER TO THE SELECTED RECIPIENT
598
SEND NOTIFICATION
FROM FIG. 24(a)
W
568
END SESSION

FIG. 24 (b)

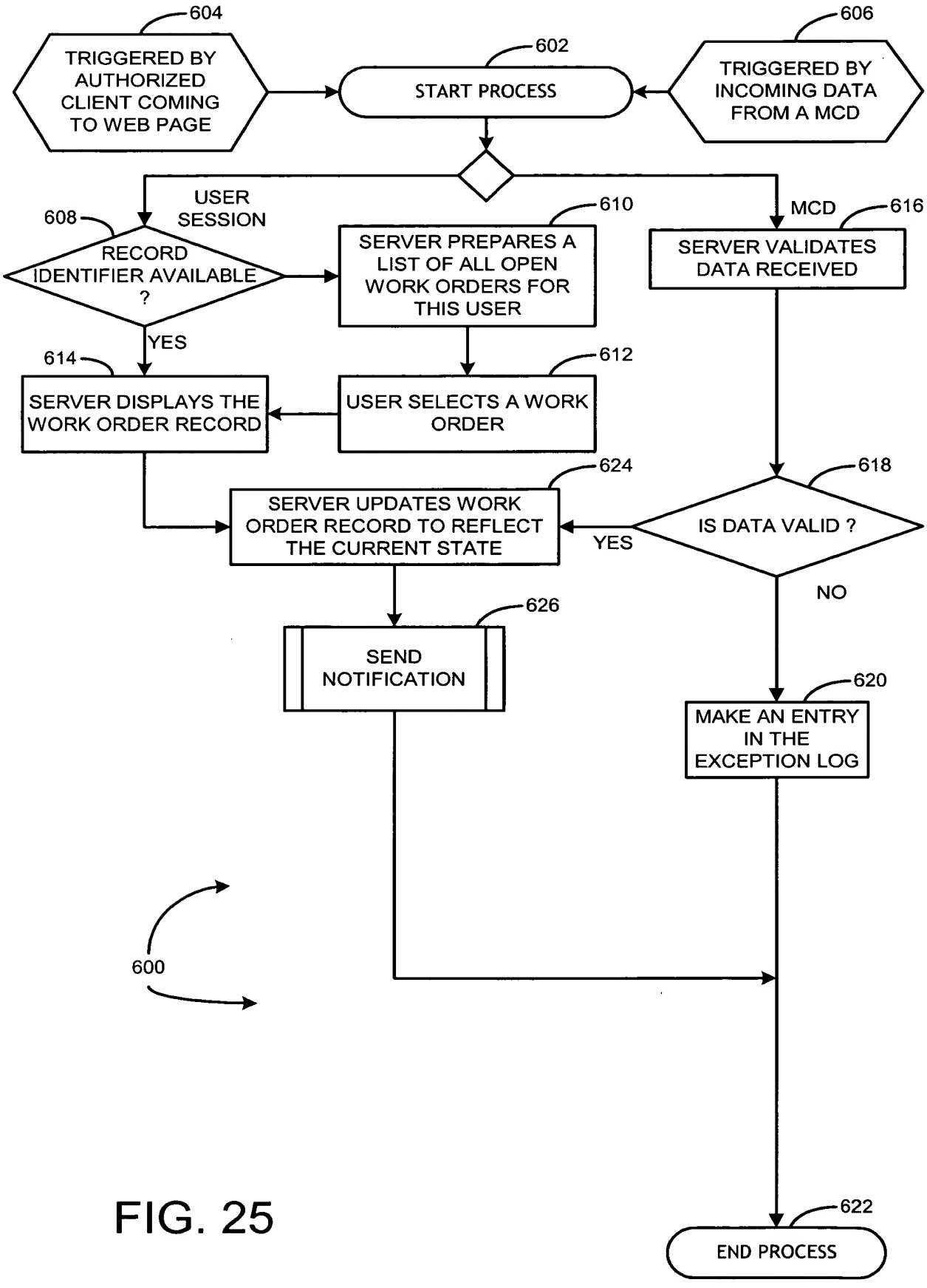

604
TRIGGERED BY AUTHORIZED CLIENT COMING TO WEB PAGE
602
START PROCESS
606
TRIGGERED BY INCOMING DATA FROM A MCD
USER SESSION
MCD
608
RECORD IDENTIFIER AVAILABLE ?
610
SERVER PREPARES A LIST OF ALL OPEN WORK ORDERS FOR THIS USER
616
SERVER VALIDATES DATA RECEIVED
YES
614
SERVER DISPLAYS THE WORK ORDER RECORD
612
USER SELECTS A WORK ORDER
624
SERVER UPDATES WORK ORDER RECORD TO REFLECT THE CURRENT STATE
618
IS DATA VALID ?
YES
NO
626
SEND NOTIFICATION
620
MAKE AN ENTRY IN THE EXCEPTION LOG
600
622
END PROCESS

FIG. 25

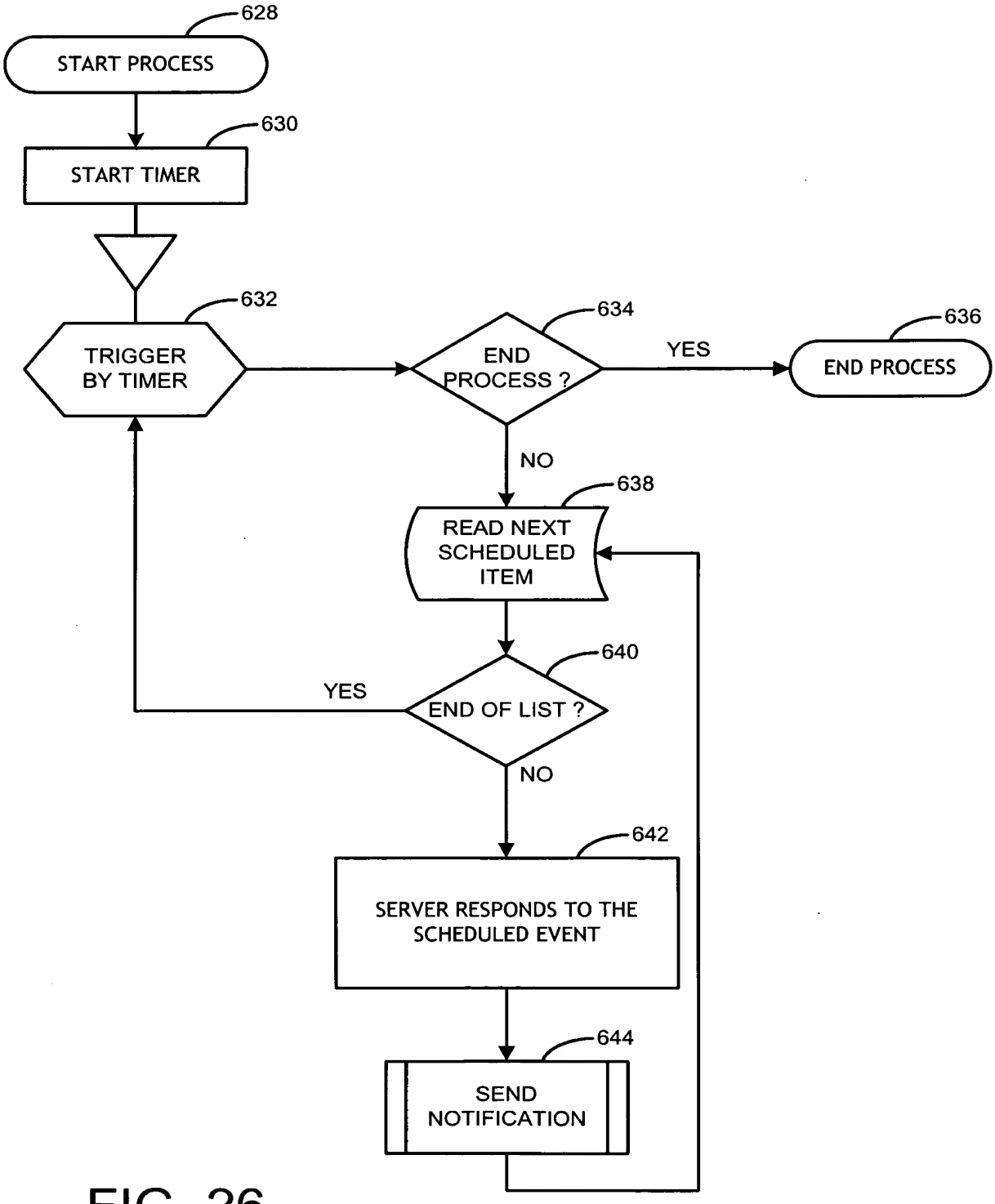

628
START PROCESS
630
START TIMER
632
TRIGGER BY TIMER
634
END PROCESS ?
YES
636
END PROCESS
NO
638
READ NEXT SCHEDULED ITEM
640
END OF LIST ?
YES
NO
642
SERVER RESPONDS TO THE SCHEDULED EVENT
644
SEND NOTIFICATION

FIG. 26

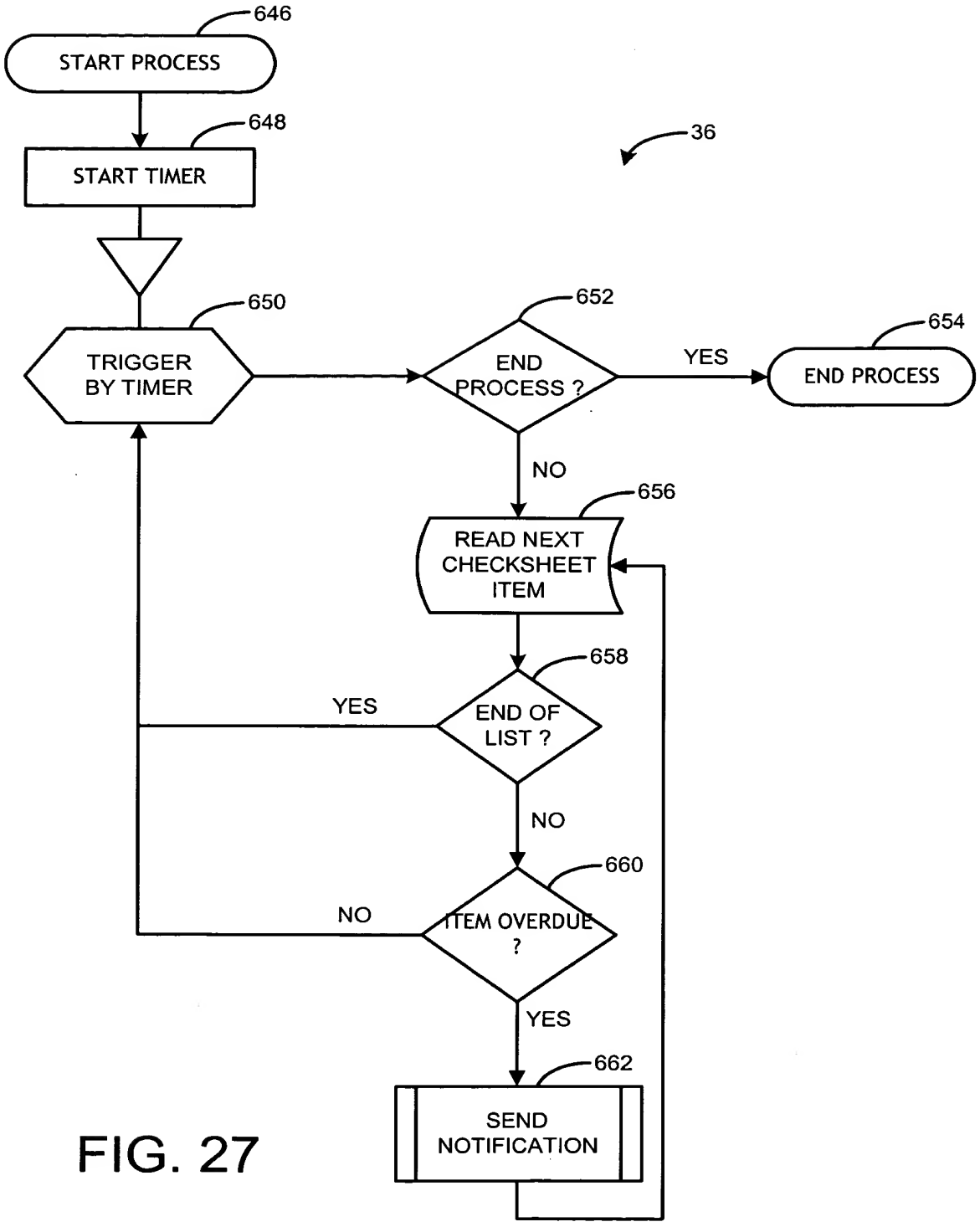

646
START PROCESS
648
START TIMER
36
650
TRIGGER BY TIMER
652
END PROCESS ?
YES
654
END PROCESS
NO
656
READ NEXT CHECKSHEET ITEM
658
END OF LIST ?
YES
NO
660
ITEM OVERDUE ?
NO
YES
662
SEND NOTIFICATION

FIG. 27